

Christlin Panneer

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PROFILE

Polyglot Programmer with Specialization in **.Net (Windows & Web), Java, Angular, Xamarin, Android, iOS, React, SQL, PWA, AWS & Azure** with **9+** years of experience.

Expert at **Algorithm Creation, System Architecture**, Basic **DevOps** configuration with Azure **Pipelines, Team** and **Client** Handling.

Experience in **Windows Server** Management, **SQL Server** Management, Core **Java**, Microsoft **.Net, Android & iOS** Application Development, ADFS, SAML, Single Sign On, **Progressive Web Apps** and Relational Database Management Systems (**RDMS**).

Innovator of **3 Computer System Algorithms** and **1 Engineering Method and System** (*Patent Pending)

Experience Includes from **conceptualization** to **delivery** of **30+** Mobile Applications, **50+** Web Services, **10+** Windows Forms Applications, **10+** Web Applications, **2** WPF Applications and **1** Web Crawler

Hands-on Experience in **Custom Hardware Interaction** in Mobile Application, Payment Gateway Integration and **Microservices**.

Hands-on Experience in **Internet of Things (IoT)** with **sensor** level implementations along with low-code / no-code platforms like **Node Red**.

EDUCATION

Bachelor of Technology (B. Tech)

Kings Engineering College, India, TN 600 001

Graduated 2012

AWARDS

Winner of **BASE 2012**

Country Wide Application Development Competition conducted by BlackBerry India.

Microsoft Azure Fundamentals Certified

Best Performer 2019

Best performance award based on multiple client feedbacks at G2 Technology Solutions India Pvt, Ltd.

7 Awards in 2020 by G2 Technology Solutions India Pvt, Ltd.

WOW Award, Circle of Excellence Award, Pinnacle Award, Dhrona Award, Esteem Award, Altruistic Award and All-Day Every-Day Award.

ALGORITHMS **Text Compression Algorithm**

A lossless text compression algorithm with efficiency up to 80%. Can be used in IO Streams. Reference tables created dynamically in both compression and decompression methods.

Self-Learning Opinion Extraction Algorithm

AI enabled opinion extraction algorithm for the Malay language. Can crawl through the internet for the keyword and extract opinions based on it. Learn continuously from the web to update its language translation and opinion reference database.

SKILLS

Languages/Scripts: C#, .Net Framework 3.0+, .Net Core, .Net 5+, Java, Android Java, Swift, ASP.Net, ASP.Net MVC 3+, Angular 6+, Python, Node-Red, React.js, ASP.NET Razer Engine, Windows Communication Foundation (WCF), Robotic Process Automation (UiPath), AD, SAML, ASP.Net Identity, SignalR, jQuery, Recoil.js, Redux.js, SQL, Redis, php, WordPress, HTML, CSS, Java Script.

Software: Microsoft Visual Studio, Visual Studio Code, Android Studio, XCode, Internet Information Services (IIS) 7.0 +, SQL Server Management Studio, MySQL Workbench, MongoDB Compass.

Databases: MS SQL Server 2008+, Oracle, Microsoft Access, MySQL, MongoDB, DynamoDB, Cosmos DB.

Hardware: ESP 32, Raspberry Pi.

Operating Systems: Windows versions 95 - 10, Windows Server 2000 to 2019, Mac OS, Ubuntu.

Cloud Platforms: AWS EC2, AWS Load Balancer, AWS S3, AWS VPC, AWS Security Groups, AWS Kinesis, AWS IoT Core, AWS Workspace / AppStream, AWS Guard Duty, AWS WAF, AWS CloudWatch, AWS RDS, Azure VM, Azure Blob Storage, Azure SQL, Azure DevOps, Azure Event Hubs, Azure Cognitive Services.

Cloud Administration and Migration: Amazon AWS, Microsoft Azure

PROJECTS

G2 Technology Solutions India Pvt, Ltd.

Associate Project Lead

July 2021 – Present

Coimbatore, India

Provide full lifecycle support to clients from initial client interaction and requirements analysis through design, coding, testing, debugging, implementation, and integration.

Projects

- **Lawyer Management Mobile App** is a Progressive Web App (PWA) developed using Angular 7 and Java Spring MVC as the backend. The reason this application developed as PWA is that the lawyers are bit hesitant to install applications on their mobile due to privacy concern. This application is an added service to the existing Lawyer management web application developed 20 years ago.

The existing application does not provide efficient API calls, so a separate proxy API implemented in Java Spring MVC to effectively generated data required for the mobile application. The PWA uses High Chars for charting purpose.

This application contains various widgets in the main screen which includes Events for today and this week, Matter handled by clerks, Matter Opening, and closing forecasts. Also, the application allows payment for the subscriptions.

- **Farming Equipment Servicing Application** is a PWA developed on Angular 11 and .Net 5 Web API. MSSQL server is the database for this application. This application can be installed on employee mobile devices and can record inspection data on remote area where the farmers equipment is available.

The application provides different UI area for various roles of the application and includes module level isolation and lazy loading. The reporting section provides better PDF downloadable reports along with various chart and table representation of data.

The Web API is implemented with In Memory caching for better performance in scenarios like authorization and Generic HTTP handlers are implemented to reduce development time and increased efficiency.

G2 Technology Solutions India Pvt, Ltd.

Associate Group Lead

June 2019 – July 2021

Coimbatore, India

Provide full lifecycle support to clients from initial client interaction and requirements analysis through design, coding, testing, debugging, implementation, and integration.

Projects

- **Migration of Existing Application to AD**, in this project worked on migration of the existing application's authentication and authorization system. The application is a task management system, based on Asp.Net MVC. Implemented Federated Active Directory (ADFS) in the application authentication.
- **PDF Proofreader** is a ASP.NET MVC 5 web application developed for Casinos to validate their personalized customer newsletter which contains free casino cash ranging from 50 USD to 1000 USD based on the customer profile.

The challenge is to identify the customer profile id from the newsletter and gather respective coupons for the customer and validate the printed material contains the right coupons and customer address.

Also, when proofing the uploaded PDF, the application works against thousands of printed pages and millions of database records. Lot of performance implementation developed for this application ranging from the algorithm, connectivity options and the SQL stored procedures and dynamic queries.

- **Micro Finance Application** is a web application developed using asp.net core 3.2 as a multi-tenant application and its hosted on Azure with various native azure / cloud capabilities. The application is provided to various micro financing organization as a software as a service (SaaS). This application utilizes DevExtreme for various UI component. Another Asp.Net application used as a separate reporting platform with dynamic reports and query builder. This application is migrated from legacy windows application to web application.
- **Sales Dashboard** is an Angular application to view corporate sales in a single page application with the ability generate reports on the fly. This application developed using Angular 6 and utilized HighCharts for visual representation of data with drill-down detail pages and google cloud print integrations.

- **Inventory and Online Order Management** is a single page web application with a restful .Net WebAPI as the backend. The SPA is developed using react.js and implemented shared state using recoil.js. The application contains various forms, grids and charts for visualization. The application includes a near Realtime dashboard to view and modify incoming orders from the customers. The customers can sign into the application to place orders, view their order history and status. Authorize.Net is integrated with the application backend as the payment processor.
- **SAML 2.0 based Checklist Application** is a web application which is asp.net based employee onboarding application with MySQL database. This application developed for a bank in Canada, deployed on AWS with load balanced setup with various security additions. Incorporated the application with the existing user base available in the bank's Azure Active Directory using SAML 2.0 protocol.

G2 Technology Solutions India Pvt, Ltd.
Senior Software Engineer

March 2018 – June 2019
Coimbatore, India

Involved in Conceptualization to Delivery of .Net and Mobile applications. Guided 2 teams technically and conducted various sessions on emerging technologies.

Projects

- **Patient Monitoring Application** is a Windows Presentation Foundation (WPF) Application developed for a reputed patient monitoring hardware developer in Canada. The application will generate live graphs of heart beats, records frequent blood sugar level, and perform various Realtime Urinalysis Tests. Patient Record and Report management system is also developed.
- **Hardware Integrated Mobile Payment Solutions** is a Mobile Application developed natively for both Android and iOS which involves in reading a physical credit card's magnetic strip / EMV chip. The hardware used in this mobile project are IDTECH Shuttle and IDTECH UniPay 1.5.

The backend is developed in Java Spring MVC which handles payments with various payment gateways including Authorize.Net, First Data and JP Morgan Chase. Also, the backend communicates to an IBM AS 400 servers to update

the payment status of customers since the mobile application is developed for a reputed payment service provider in the United States.

- **Synergy Dashboard** is an React.js web-based ERP dashboard application for an existing windows forms ERP application. This application is an effective dashboard to view all corporate process and manage each process by multi-level approval. This application uses recoil.js for shared state across components and utilizes restful API calls from various micro services written in .Net WebAPI.

Areopagus Technologies Private Limited

Senior Software Engineer

March 2016 – April 2018

Tirunelveli, India

Provided full lifecycle support to clients from initial interaction and requirements analysis through design, coding, testing, implementation, and integration.

Projects

- **Cache Enabled API** is a Windows Communication Service (.Net 4.5) developed for deployment on Azure to provide business logic to an ERP. The authentication mechanism is overly complex and resource consuming. So, to minimize resource usage a foolproof custom caching mechanism was implemented. It uses SQL Server Database with cross database queries.
- **MVC 5 Web Application** – It is an admin panel to manage an ERP. Various charts and functionalities make use of the above said Cache Enabled API. It interacts with the API using tokens. ASP.Net Identity Provider is configured with a custom authentication provider.
- **Android Mobile App** – Developed an android mobile application to act as a fundamental entity of an ERP. Which means the mobile app is used by users of an ERP system. Which consists of various roles and responsibilities. And the application distribution platform (like play store) is also developed to distribute various Android mobile application associated in the ERP with auto update.

Kube Farm Private Limited
Senior Software Engineer

January 2015 – February 2016
Chennai, India

Lead a team to create new algorithm to extract opinions from the internet based on keywords with a bilingual processor for Basha Malaysia and Basha Indonesia. 80% of accuracy achieved in opinion extraction.

Projects

- **Web Crawler** it is an internet content crawler, and it utilizes Google search API to start crawling for given search text. It crawls automatically over the internet and extract opinion (positive or negative) about the given search text. It is developed using Asp.Net (.net 3.5) and uses MySQL database to store crawled data. It is multithreaded and provides highly visualized admin panel. Provides client access to the admin panel with selectable functionalities. This crawler was deployed on an Azure virtual server, and it was designed to support AWS EC2 instances too with cloud watch metrics. This crawler supports crawling over twitter and Facebook, with reports contains the profile of the user with his opinions (with images).
- **Android Mobile Application** is developed to view various reports of the above-said web crawler and manage the crawler's functionality (start, pause and stop) and view stats of the crawler. It consists purchasable crawler credit to run a crawler.
- **Bilingual Processor** is a language translator and vocabulary manager with the ability to convert English \leftrightarrow Basha Malaysia / Basha Roja and English \leftrightarrow Basha Indonesia. This processor is Intelligent enough to auto detect the languages. It is developed with C# .Net and it is embedded with the crawler.
- **Opinion Extraction Algorithm** is a text mining algorithm to extract opinion (positive and negative) with the percentage from a given text. Opinions extracted from numerous samples of synonyms for each word in the given text. This is a continuous learning algorithm; it learns new word's (new language) polarity by translating it to several other languages and finding its opinion/polarity. It has its own dictionary and polarity database. It extracts final opinion based on the context of the given text. The text is mostly from

social media like Facebook and twitter. So, it has a separate cleaner processor to clean unnecessary words and symbols. It is developed using C# .Net.

Kube Farm Private Limited
Software Engineer

July 2013 – December 2014
Chennai, India

Lead a team to create new algorithm to extract opinions from the internet based on keywords with a bilingual processor for Basha Malaysia and Basha Indonesia. 80% of accuracy achieved in opinion extraction.

Projects

- **Employee Management System** is a windows application developed with .net to manage employees in an organization. Attendance will be processed from the thumb print of the employee. This system consists of employee payroll, this payroll system can be accessed through a web portal developed in Asp.Net.
- **Enterprise Cloud File Delivery System** is a cloud file management system built using windows forms application (with .Net FileWatcher) by utilizing Amazon S3 Storage. This system can sync files based on two profiles public and private. This system keeps records of file revisions and access logs.

Kube Farm Private Limited
Software Engineer

May 2012 – June 2013
Chennai, India

Involved in development and testing of various windows desktop applications (both Java and .Net), web applications (including HTML, Asp.Net, and WordPress) and Android mobile applications.

Involved in creation of SQL Database, Stored Procedures, and Views. Involved in spotting and resolving issues in a deployed application using Remote Desktop Connection.