

ASHWIN NELLIMUTTATH

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EDUCATION

Master of Science, Computer Engineering

University of California, Riverside

| Sep 2022- Dec 2023

GPA 3.85/4

Coursework - Data Structures and Algorithms, High Performance Computing, Artificial Intelligence

B.Tech, Electronics and Communication Engineering

Cochin University of Science and Technology

Kochi, India | 2013-2017

SKILLS

Programming Languages: JavaScript/TypeScript, Python, Golang, SQL, HTML5/CSS, C/C++

Databases: MySQL, PostgreSQL, MongoDB, Elasticsearch, Supabase

Web Development: Next.js, Angular, React, Node.js, Redux, RxJS, Django, GraphQL, Tailwind

Tools: AWS, Kubernetes, Git, Docker, Linux, Postman, Microservices, Agile/Scrum, Swagger

EXPERIENCE

Alltech, Software Developer Intern

California, USA | Jun 2023 – Sep 2023

- Conceptualized and built a Farm management application using Next.js 13 resulting in a 15% increase in overall farm productivity. Integrated authentication system to ensure secure user access and data protection using Supabase
- Implemented Server-Side Rendering, pre-fetching to improve website performance and SEO rankings, resulting in a 30% decrease in initial page load times.

Qburst, Senior Software Engineer

Trivandrum, India | Feb 2020– Aug 2022

- Headed a Team of 5 to develop REST APIs with Golang using Dependency Injection to show recommended products for an e-commerce website. Improved the API **response time by 20%** using Goroutines and Channels.
- Built an web application in React using hooks, Redux for creating and editing Agreement Template PDFs using FabricJS; affecting more than 1M PDFs thereby improving the **updtation time** of Template by more than **70%**.
- Implemented RabbitMQ as a message broker to facilitate asynchronous communication between microservices.
- Created Unit test cases and designed mocks using mockery with **95% test coverage** . Supervised and reviewed Unit Test plans, Functional testing and other quality related work following AGILE development methodology.

Triassic Solution, Software Developer

Trivandrum, India | Jul 2017– Feb 2020

- Developed a web application with an interactive dashboard to show live data coming from microcontrollers using Webpack federated modules, Angular 6, Typescript, Three.js and Rxjs subscriptions.
- Back-end implementation with RESTful web services with Object oriented Programming using NodeJS, Express JS, MongoDB and MVC design patterns. Improved the **response time by 30%** using Redis cache.

PROJECTS

DataTrak Template Automation

- Re-architected the ABC financial services to a **Microservice based dockerized** platform and orchestrated **Kubernetes deployments** to manage the application's containerized instances in a team of 5.
- Built an online web based editor to create PDFs that reduced the usage of Adobe license and manual updates which slashed down the overall cost by more than **30,000 USD** annually.

Patient Monitoring System

- Automated a Machine Learning application to analyze patient records in a team of 6 using Django and MySQL.
- Converted Image into structured Text using pytesseract OCR and extracted keywords using spaCy NLP library.
- Maintained **Privacy and security** standards for HIPAA compliance.

Affiliate Marketing

- Developed the Back end side an application using Golang, GORM, PostgreSQL and Google Sign-in APIs that allows third party publishers to monetize their marketing strategies for Qburst.
- Implemented features to keep track of legitimate leads thus leading to **20% more** enquiries for the company.
- Integrated CI/CD pipelines using Jenkins with Github facilitating automated builds, tests, and deployments.