

# Sidharth Koyipallil Sivaprasad

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Dedicated Software Engineer with 3+ years of experience in developing robust applications and translating complex business requirements into innovative technical solutions, coupled with a keen eye for writing clean, maintainable code.

## EXPERIENCE

- **Founding Software Engineer, BLUSVN Technologies** Jun 2024 - Present
  - Wire-framed(**Figma**) and developed 2 mobile apps and a management portal for a delivery solution. Reduced mobile app development time by > 40% by leveraging **Capacitor** and a shared **Next.js** codebase.
  - Integrated a multitude of features including user sign in, product management, cart management (**Redux**), order tracking, payment system(**Stripe**) and customer support chat(**Firestore**).
  - Managed the app build(iOS and Android) and deployment process using **Appflow**, **GitHub** and **AWS** services ensuring seamless delivery and efficient release cycles. Integrated **Sentry** to track app performance.
  - Decreased manual QA effort by 50% through front-end automation with **BrowserStack**(Appium) and **Cypress**.
  - Developed Python scripts to scrape product prices from 8,000+ U.S. retail stores, enabling dynamic pricing in the app; automated execution via AWS Batch for periodic updates and real-time accuracy.
  - Architecting an automated customer support chat microservice using n8n for workflow orchestration and LangGraph for conversational state management,integrated with OpenAI APIs.
  - Set up system-wide monitoring dashboards and alerts with **Prometheus** and **Grafana**, leading to a 30% decrease in critical downtime and supporting data-driven optimization decisions.
- **Software Developer Intern, Marlabs LLC** Dec 2023 - Jun 2024
  - Redesigned a fund analyser dashboard using **React** by utilizing **pagination** and **caching** techniques, thereby reducing the page load time from 12 sec to 3 sec, leading to a 18% increase in user engagement.
  - Implemented a multi-model comparison feature(up to 3) in the dashboard that enables investors and financial professionals to research and visualize( **D3.js** ) a wider range of investing scenarios
- **Data Engineer, Tata Consultancy Services** Jan 2021 - Dec 2021
  - Contributed to the data engineering team at Amgen, utilising tools including **Databricks**, **Apache Spark**, **Oracle**, **ELK stack** and **Redshift** to develop pipelines for managing sensitive medical data.
  - Ensured 99.97% availability of data processing servers while creating and maintaining large-scale data for offshore clients. Provided data security and quality control workflows as per client needs and gained skills in project management, team collaboration, and problem-solving.
- **Trainee Software Engineer, Cloudsys Analytics** Oct 2020 - Dec 2020
  - Collaborated on the development and deployment of proprietary technology Kloudpad FR - Facial Recognition System for employees and loyalty customers for a pan-India retail chain.
  - Integrated *CloudVision API*, which collected data through facial recognition and analyzed it in real-time using **Tableau**. This facilitated informed actions, like personalized marketing, enhancing overall customer experience.

## PROJECTS

- **Velocified - Learning Management System**
  - Led frontend development of a Learning Management System. Improved page load times (< 2s), achieved a 98 Google Lighthouse rating for **SEO**, optimized **UX**, and enhanced performance using Next.js SSR/SSG.
  - Utilized **Agile** project management to integrate frontend using **React.js/Next.js** (**Redux** for state management) and backend technologies (**Node.js/Express.js**, **MongoDB**), deploying the solution leveraging **AWS ECS**, **S3**, **CodePipeline**, **CloudFront** and **Route 53** ensuring efficient and seamless deployment.
- **Gun Violence Analyser Using Semantic Data Integration** Published in IEEE Xplore
  - Developed a Semantic Web application using **ReactJS**, **ChartJS** and **Java Spring boot** offering interactive insights into gun violence incidents in the United States.
  - Applied **Ontology modeling** to structure data from over 30,000 entries. Leveraged Fuseki server for streamlined data querying(**SPARQL**) and deployed the application using AWS .

## EDUCATION

- **Arizona State University** Tempe, Arizona  
*MS - Computer Software Engineering; GPA: 4.00/4.00* Jan 2022 - Dec 2023
- **Government Engineering College, Thrissur** Kerala, India  
*B.Tech Hons, Computer Science and Engineering; GPA: 3.41* Apr 2016 - Jul 2020

## SKILLS SUMMARY

- **Languages:** JavaScript (ES5/ES6), Typescript, Python, Swift, Kotlin, Java8, C++, C#, Go, SQL
- **Web Tech:** HTML5, CSS, ReactJS, Angular 15, ExpressJS, React Native, Bootstrap, Tailwind, SASS/SCSS, MongoDB, GraphQL, Redis, PostgreSQL, Zustand, Django, SOLID, Jest, Jasmine, RTL, Selenium, Cypress, PostMan, Sentry
- **Tools:** CI/CD, Git, GitHub, Docker, Kubernetes, AWS, GCP, Azure,UNIX OS, Linux, Shell Scripting, Troubleshooting, Android Studio, IntelliJ, VSCode, JIRA, Jenkins, SpringMVC, Tableau, Eclipse, Figma, Linux, Bash, IBM Cloud, Unity