SIRANJEEVI MUTHUSAMY

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PROFILE

- **Full Stack Developer** with **4+ years of experience** in developing scalable, responsive, complex enterprise and small-scale business applications.
- Hands-on experience in building applications for internal operations using web technologies and programming languages like React, ES6 JavaScript, jQuery, Java, Node.js, Express.js. creating visually appealing responsive websites, gamified portals, enterprise web applications, and RESTful APIs.
- Hands-on experience in designing and developing IoT systems, with experience in utilizing communication protocols like Bluetooth and LoRaWAN.
- Directly engaged with diverse stakeholders and cross-functional teams within the company, including product managers and business leaders communicating solutions and ensuring alignment with business requirements.
- **Availability and Visa Information:** Available from January 2026 – Stamp 1G

TECHNICAL SKILLS

- **Programming Languages**: JavaScript (ES6), Java (MVC)
- **Web Technologies**: : HTML, CSS, Bootstrap, React.js, Next.js
- **Backend & Data Handling:** Proficient in Java, Node.js, Express.js
- **Data Structures and Algorithms**
- **Design Patterns**
- **CMS:** Ghost
- **Cloud Services**: Proficient in **Amazon Web Services** with direct experience in services like EC2, S3, Lambda, SQS, SNS, Elastic Beanstalk, SageMaker, RDS, API Gateway, Route53 and AWS Code pipeline
- **DevOps**: Git, GitHub Actions, Docker
- Proficient in agile methodologies
- **Database:** MySQL, Firestore, CouchDB
- **AWS Certified Solutions Architect Associate -** R5Z0X43DBME41QS9

EDUCATION

2023 – 2024 | National College of Ireland, Dublin   **MSc Cloud Computing – 2.2**
Modules: Cloud Architecture, Cloud Platform Programming, Cloud-DevOps-Security, Blockchain, Cloud Machine Learning, Scalable Cloud Programming, Fog and Edge, Research Project, Data Governance, Compliance and Ethics

2015 – 2018 | Bharathiar University, India   **Bachelor's in Computer Applications – CGPA 7.0**

WORK EXPERIENCE

Present | PRM Assist - Dublin   **Full Stack Developer**
- Implemented monitoring and observability for Node.js microservices using Prometheus, cAdvisor and Grafana, providing insightful dashboards for application code and container level metrics.
- Developed a "**Real-time staff location tracking system for airports"** using 3 different sources to confirm staff locations: "**BLE Beacons, Geofences** and **GPS"** coordinates from the staff device. Added a fallback mechanism for cases where all three checks fail, prompting the staff to scan for "**QR"** codes to confirm location. This system consists of 2 products: An Admin Portal for configuring Geofences, Beacons, QR codes, monitoring staff locations on a live map and a React-Native Android App for staff that periodically scans for BLE Beacons, listens for geofence events, and retrieves GPS coordinates. Coordinated with airport staff managers throughout testing, establishing a consistent feedback loop that accelerated feature rollouts and improved system reliability, achieving a success rate of 80% in confirming staff location.
- Developed an "**Asset tracking system for airports"**, using "**LoRaWAN"** as the communication protocol for transmitting asset locations to edge devices (**Gateways**) in the airports and relay to "**a self-hosted Chirpstack**

network server". This server handled decoding and forwarding data to the application server for storage and visualization on a live map. Made key infrastructure design decisions like hosting the network server, designing database collections for efficient reads and writes and selecting the communication protocol. Engaged with the device manufacturer, making custom device configurations for custom requirements.
- Revamped the company's customer-facing website "**prmassist.com**" with a mobile-first, responsive design, improving user experiences and usability across devices.
- Implemented Multi-Factor Authentication (MFA) for the core "**PRM Assist Portal**," enhancing account security for internal users.
- led penetration testing into the development cycle. Found critical vulnerabilities and worked with the team to patch early.

2020 – 2023 | Amazon   **Full Stack Web Developer**
- Developed and deployed web products like "**CAFE, AIM, ANDON CARD**" as a part of Amazon.in's widely used web suite called "**Galaxia**," adhering to best software development practices and coding standards.
- Optimized and revamped "**CAFE: HR Engagement Tool**" within a 3-month tight deadline, improving the overall user experience, by adding new features, refactoring old code, incorporating continuous development, and communicating user feedback to the product team.
- Led the development of an internal gamified employee idea portal called "**AIM**" as the first junior developer on Automation team, contributing to the development of both the frontend and backend. This gained broad approval throughout the Amazon Global network and set a new benchmark for the team, resulting in a 40% increase in Galaxia's adoption across Amazon EU, NA, and the Middle East.
- Acted as a key contributor to the team by showing flexibility in supporting web products simultaneously.
- Conducted code reviews and managed development tasks through ticketing system to ensure milestones were met on time.

2019 - 2020 | Amazon   **Customer Support Associate - Retail**
- Collaborated as a key member of a specialized team, "**SWAT**," which handled customer contacts from NA, IN and EU regions, communicating and addressing the needs of over 150-200 customers through various channels each day, while maintaining high customer satisfaction level.
- Facilitated the team in rotational shifts and contributed extra hours when needed, always maintaining the team's capacity to above 95% and supporting the company's operational goals.
- Received accolades from managers for maintaining monthly employee targets, providing exceptional customer service and for always achieving 90% positive feedback from customers.
- Awarded the "Employee of the Month" 2-times for displaying excellence in training and mentoring new agents on Amazon policies relevant to the retail industry.

LEADERSHIP EXPERIENCE

Mar – Sep 2024 | National College of Ireland   **Computing Lab Assistant**
- Coordinated undergraduate and master's students during practical sessions, assisting with and answering any queries regarding the subject matter.
- Facilitated students in setting up development environment, troubleshooting machine learning experiments, and resolving any technical issues encountered.
- Co-ordinated with the computing lecturer during class to ensure a smooth learning environment.

June 2024 | National College of Ireland   **Early Learning Initiative - Team Leader**
- Introduced coding to young people of age 14-17 alongside two other team members, increasing interest and facilitating the development of competitive projects, and help improving communication, creativity, and presentation skills.
- Provided insights about college life and prepared participants for future academic opportunities.
- Prepared visits to IT companies in Dublin, guiding and helping students understand the diverse opportunities available upon graduating from university.
- Facilitated learning activities that helped build strong relationships with teachers and fellow students.

PROJECTS

Personal and Education

- **Algo-View –** A react application that allows visualizing JavaScript's data structures and algorithms – [Live](#)| [GitHub](#)
- **Personal Portfolio –** Built and hosted a personal portfolio (react app) on AWS – [Live](#)| [GitHub](#)
- **Research Project (Masters) –** Implemented Federated Learning for improving recovery in Autonomous Vehicles utilizing CNN and FNN models.
- **Link Shortener (Masters) –** A highly scalable URL Shortening API service deployed in a 3-tier architecture using AWS Elastic Beanstalk. This infrastructure also demonstrates a fully automated CI/CD pipeline using GitHub actions and AWS code pipeline - [GitHub](#)
- **Education Recommendation System (Masters) –** A hybrid learning materials recommendation model for students, leveraging both supervised learning for accurate topic prediction and unsupervised learning for content similarity.
- **Inventory Management System (Masters) –** A JavaScript IMS application that supports real time updates of stocks and orders and generates low stock alerts using AWS event driven services like SNS, Lambda and SQS. This also includes detailed analysis of stocks and orders using Chartjs.
- **Blockchain web3 application (Masters) –** A React NFT minting application, deployed on the sepolia test ether network.
- **Other –** [GitHub](#)