

SIRANJEEVI MUTHUSAMY

139, Adamstown Avenue, Lucan, Co Dublin – K78 TC63 | Ph: 089 986 6383 | E-mail: siranjeevik21@gmail.com

LinkedIn: www.linkedin.com/in/siran28/ | Portfolio: www.siranstatus200.com

PROFILE SUMMARY

- **Full-Stack Developer** with **4+ years of experience** in developing complex, scalable, and highly available software solutions for various businesses.
- Hands-on experience in developing applications for internal operations using web technologies and programming languages like React, Next.js, ES6 JavaScript, Java, Node.js, Express.js, creating visually appealing responsive websites, gamified portals, enterprise web applications, and RESTful APIs.
- Hands-on experience in designing and building 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.
- **Visa Information:** Stamp 1G

TECHNICAL SKILLS

- **Programming Languages:** JavaScript (ES6), Java
- **Web Technologies:** HTML, CSS, Bootstrap, React.js, Next.js
- **Backend & Data Handling:** 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, Prometheus, Grafana, PagerDuty
- 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 microservices using Prometheus, PagerDuty, and Grafana, providing actionable dashboards for application, container-level metrics and incident response. This reduced debugging time by 60% and improved visibility into overall system performance, error rates, allowing the team to optimize latency, plan scaling and manage the system upgrades efficiently.
- Developed a “Real-time staff location tracking system for airports” using “BLE Beacons, Geofences and GPS” coordinates from the staff device. Coordinated with airport managers throughout testing, establishing a consistent feedback loop that accelerated feature rollouts and improved system reliability, achieving a 95% accuracy rate in confirming staff location.
- Architected an “Asset tracking system for airports” using “LoRaWAN”, capable of monitoring 300+ assets in real time. Directed infrastructure design decisions like hosting network server, database collections for efficient reads and writes and selecting suitable communication standards. Acted as the primary liaison between airport authorities and the device manufacturer, aligning requirements, resolving issues and driving successful deployment.
- Revamped the company’s customer-facing website with a mobile-first, responsive design, improving user experiences and usability across devices.

2020 – 2023 | Amazon

Full Stack Web Developer

- Developed 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, enhancing 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 make sure milestones were met on time.

LEADERSHIP EXPERIENCE

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 helping with 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 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.
 - **Other** – [GitHub](#)
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