

# ASHAIN SIRIWARDANE

Senior Full-Stack Engineer | Tech Lead

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| [sinfulexiled.github.io/myportfolio2025](https://sinfulexiled.github.io/myportfolio2025)

## PROFESSIONAL SUMMARY

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Senior Full-Stack Engineer and emerging Tech Lead with 5+ years of experience designing and delivering scalable SaaS products, enterprise integrations, and cloud-native systems. Proven track record of leading engineering teams of 7–10 developers, driving system architecture decisions, and mentoring junior engineers. Deep expertise in React.js, Node.js, TypeScript, and cloud platforms (AWS, Azure). Passionate about building clean, maintainable systems and translating complex business requirements into robust technical solutions. Based in Sri Lanka and open to remote opportunities in the US/Canada market.

## CORE COMPETENCIES

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**Front-End:** React.js, Next.js, Redux, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Material UI, Ant Design

**Back-End:** Node.js, Express.js, NestJS, REST APIs, GraphQL, Spring Boot, Workflow Automation, Systems Integration

**Databases:** PostgreSQL, MySQL, MongoDB, Firebase, DynamoDB

**Cloud & DevOps:** AWS (S3, EC2, Lambda), Azure (Service Bus, Monitor), Google Cloud, Docker, CI/CD pipelines

**Architecture:** Micro-Frontends, Microservices, Multi-Tenant SaaS, Mono-Repo, Event-Driven, Low-Code, Single Responsibility Principle

**Leadership & Process:** Team Leadership, Code Review, Mentoring, Agile/Scrum, TDD, Stakeholder Management, System Design

**Tools:** Git, GitHub, Bitbucket, Jira, VS Code

## WORK EXPERIENCE

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**Allion Technologies** | 2025 – Present

*Senior Software Engineer – Insurance Finance / Banking Integration*

- Architected and built a low-code, config-driven orchestration platform from scratch that automates insurance claims flows, banking transactions, and data pipelines across enterprise systems — eliminating the need for individual point-to-point integrations.
- Engineered the orchestration core using Azure Service Bus (ASB) and Azure Durable Functions, enabling reliable, stateful workflow execution with built-in replay capability so transactions can be re-triggered from any upstream source without data loss.
- Platform has successfully orchestrated thousands of transactions across distributed financial systems, with workflows defined entirely through JSON/YAML configuration — removing the need for custom code per integration.
- Designed and delivered React.js front-end tooling and UI/UX for the platform, enabling non-engineering stakeholders to configure and monitor workflows without writing code.
- Led client requirement gathering and translated complex financial domain logic into orchestration rules, driving execution from architecture through production delivery.

**Velaris** | 2022 – 2025

*Senior Software Engineer – SaaS Customer Success Platform*

- Owned and delivered multiple core product areas end-to-end across UI, API, and service layers on a B2B SaaS platform — including Success Plans, Task Management for organization managers, Milestones, Files, Notes, and a drag-and-drop Scenario Workflow Builder.

- Built the drag-and-drop Scenario feature enabling customer success managers to visually construct automated workflows — a flagship product capability — using React.js with full backend integration via Node.js and PostgreSQL on AWS.
- Took full-stack ownership of the Task Handling system for organizational managers, designing the data model, REST API, service logic, and React UI from scratch.
- Architected and implemented the Success Plans and Milestones modules, providing customers with structured frameworks to track and manage client outcomes within the platform.
- Collaborated within a cross-functional team of 7–10 engineers, contributing to system design decisions, API contracts, and front-end architecture standards across the product.
- Mentored and coached junior and mid-level developers through code reviews and pair programming, raising overall code quality and engineering standards across the team.
- Managed PostgreSQL schemas and AWS infrastructure for owned product areas, ensuring performant queries and reliable cloud deployments.

## **OctopusBI | 2021 – 2022**

### *Software Engineer – SaaS Web Applications & Educational Dashboards*

- Built and maintained analytics dashboards adopted by 200+ schools across Australia, serving 2,000+ users including teachers, administrators, and school managers tracking institutional performance metrics.
- Delivered per-school dashboard customization capabilities, enabling each institution to configure views and metrics according to their own reporting needs — integrated with Canvas LMS, Google Classroom, and Volkswagen's internal learning platform.
- Developed complex React.js applications using Redux Thunk and ducks architecture for predictable, scalable state management across a large multi-tenant front-end codebase.
- Implemented Next.js server-side rendering to improve initial page load performance and SEO across the platform.
- Designed and implemented app-wide custom authentication and role-based access control (RBAC), securing sensitive student and institutional data across all tenants.

## **SIUEX | 2020 – 2021**

### *Software Engineer – Enterprise Management Systems*

- Delivered end-to-end design and development of Hospital, Event, and Restaurant Management Systems using microservices architecture and headless CMS.
- Built a Hospital Management System backend in Spring Boot, implementing IIT health data exchange standards for interoperability with external health platforms.
- Integrated Google Maps API for real-time navigation and location-based features within the event management product.

## **KEY PROJECTS**

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**Low-Code Integration Orchestration Platform (Allion Technologies):** Built from scratch — a config-driven (JSON/YAML) orchestration engine using Azure Service Bus and Azure Durable Functions, automating insurance claims, banking transactions, and cross-system data pipelines with replay support. Orchestrated thousands of transactions. Stack: Node.js, Azure, React.js.

**Customer Success SaaS Platform – Core Product Areas (Velaris):** Full-stack ownership of Success Plans, Tasks, Milestones, Files, Notes, and a drag-and-drop Scenario Workflow Builder across UI, API, and service layers. Stack: React.js, Node.js, PostgreSQL, AWS.

**Australian School Analytics Dashboards (OctopusBI):** Multi-tenant dashboards serving 200+ schools and 2,000+ users across Australia. Integrated with Canvas LMS, Google Classroom, and Volkswagen. Stack: React.js, Next.js, Redux, Ant Design.

**Hospital Management System (SIUEX):** Microservices-based HMS with IIT health data exchange. Stack: Spring Boot, Google Maps API, headless CMS.

**AI Glasses Try-On System (Final Year Project):** Machine learning and deep learning model for virtual glasses recommendation and augmented try-on experience.

## EDUCATION

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**Staffordshire University, United Kingdom | 2020**

*BEng (Hons) Software Engineering – 2nd Class Honours*

- Final Year Project: AI-powered Glasses Recommendation and Virtual Try-On System using Machine Learning and Deep Learning.

## CERTIFICATIONS & AWARDS

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- Udemy Certified – React.js, Hooks, React Router, and Redux (Full Developer Course)
- 1st Place – Remitbee Hackathon
- 2nd Runner-Up – APIIT Hackathon (Code Camp)