



AMANTHA JAYATHILAKE

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SUMMARY

Full-stack Software Engineer with over 6 years of progressive experience architecting and implementing scalable web solutions across consulting and product development environments. Specialized in building end-to-end systems using modern JavaScript frameworks, Node.js backend architectures, and cloud infrastructure. Proven ability to lead technical initiatives, mentor development teams, and translate complex business requirements into robust, maintainable solutions. Passionate about leveraging AI and emerging technologies to drive product innovation and user experience improvements.

PROFESSIONAL EXPERIENCE

Senior Application Full-stack Developer (G4)

Aug 2025 – Present

Hexaware Technologies, Sri Lanka – On-site

- Architected real-time data pipeline fetching New Relic metrics and indexing to Elasticsearch every 2 minutes for enterprise analytic.
- Leading two-member team to modernize legacy Python automation scripts for M365 and end-user insights into scalable microservices.
- Enhanced TensAI widget builder with dynamic functionality and improved UI/UX for streamlined dashboard customization.
- Collaborate with cross-functional teams to align technical solutions with business objectives and platform roadmap.
- **Techstacks:** Node.js, Python, TypeScript, React, New-Relic, Elastic, Azure App Services, ServiceNow

Software Engineer

Oct 2023 – Aug 2025

Acorn Solutions Pvt Ltd, Sri Lanka. **(Hapstar – United Kingdom)** – Remote

UAE branch: Acorn Solutions FZ, LLC – Al Hamra Industrial Zone, FZ, Ras Al Khaimah, UAE.

- Designed scalable architectures using Node.js, TypeScript, React, and PostgreSQL serving thousands of users with 99.5% uptime.
- Built AI-powered wellbeing chatbot using OpenAI GPT models, becoming flagship feature with 35% increase in user engagement.
- Integrated enterprise SSO authentication and AWS S3 cloud storage for enhanced security and file management.
- Optimized PostgreSQL performance through indexing and caching, achieving 40% improvement in API response times.
- Established CI/CD pipelines with Docker, reducing deployment time by 60% and minimizing incidents.
- Mentored three junior developers through code reviews and technical guidance on TypeScript and React patterns and ensured WCAG AA accessibility compliance across application suite.
- **Techstacks:** Node.js, TypeScript, React, Fastify, Express, Knex, PostgreSQL, Docker, AWS S3, Jest, Zod, Redux, Handlebars, OpenAI API, Tanstack Query (React query)

Software Engineer | Mobile Engineer (1 year)

Jul 2021 – Oct 2023

Xinotech Technology Services, Vancouver, BC - Remote

- Developed backend services for CertX360 using NestJS, TypeORM, and SQL, ensuring 99.9% uptime.
- Led technical architecture for ACE Taxi ride-hailing platform, designing backend microservices and cross-platform mobile apps.
- Developed responsive interfaces for CertX360, ACE TaxiApp, and admin panels using React, React Native, and Firebase.
- Contributed to blockchain NFT marketplace projects (Mizu NFT, YellowHeart NFT) with wallet integrations, and optimized API architectures achieving 50% reduction in response times through caching and query optimization.

- Mentored three junior developers on architectural patterns, testing strategies, and mobile development practices.
- **Techstacks:** NestJS, TypeORM, SQL, Next.js, React.js, React Native, Firebase, IoT, GCP used for Maps

Full-stack Developer

May 2020 – Jul 2021

JSAP Labs Pvt Ltd, Sri Lanka - Hybrid

- Developed full-stack applications with Node.js, Express.js, MongoDB, and React.js, building RESTful APIs, enhancing UIs, and collaborating in cross-functional teams to improve code quality.
- **Techstacks:** Node.js, Express.js, React.js, MongoDB, Go

Intern Software Engineer | Associate Software Engineer

Sep 2019 – May 2020

Nexis Software, Sri Lanka (Intern: 6 months | Associate: 7 months) - Remote

- Started full-stack development with React.js, Node.js, SQL/NoSQL databases, and UI design using Figma, following best practices in collaborative agile teams.
- **Techstacks:** React.js, Node.js, SQL, NoSQL, Figma

OTHER EXPERIENCE

Engineer | Research Scholar - Software, Machine learning, AI and IOT

Jan 2023 – May 2024

Sri Lanka Institute of Information Technology, Sri Lanka

- Designed a system to detect stress via keyboard dynamics, mouse interactions, and IoT sensors, offering personalized stress-reduction recommendations using Python, Azure, OpenAI, Docker, ReactJS, TensorFlow, Electron, IoT, Arduino, and C++.
- Created SerenAI, an AI companion using OpenAI for emotion detection and support, contributing to **six research papers** and recognition as a Microsoft Imagine Cup semifinalist.
- **Techstacks:** Python, Azure, OpenAI, Docker, React, TensorFlow, Electron, IoT, Arduino, C++

TECHNICAL SKILLS

Programming & Development:

- Backend: Node.js, Python (intermediate), TypeScript, Express.js, Fastify, NestJS, Knex, TypeORM, SQL (PostgreSQL, MySQL), MongoDB, Supabase, GraphQL (Basic)
- Frontend: React.js (Context API, redux, hooks), Next.js, React Native, Flutter, Vanilla.js, HTML/CSS/SCSS

AI & Machine Learning:

- OpenAI API integration (GPT models, embeddings), Claude API, TensorFlow model development, AI-driven feature implementation, natural language processing applications

Data Analytics & Observability:

- Elasticsearch and Kibana for log analytics and visualization, New Relic for application performance monitoring, experience with real-time data processing and indexing strategies

Cloud & DevOps:

- AWS (S3, EC2, Lambda), Azure (App Services), DigitalOcean (Deployments, Spaces), GCP
- CI/CD implementation, Docker containerization, Serverless computing, Kubernetes (Basics)

Testing & Quality Assurance:

- Automated testing with Cypress, Jest, and Mockingoose
- Schema validation with Zod, Formik, and Yup

Real-Time & API Communication:

- Firebase Cloud Messaging (FCM), WebSockets, Socket.io, CRON Jobs, RESTful API and GraphQL development

UI/UX & Prototyping:

- MUI, Bootstrap, Tailwind CSS for responsive designs
- Wireframing and prototyping using Figma, Zeplin, Draw.io, Adobe XD, Adobe Illustrator & Photoshop

Version Control & Project Management:

- GitHub, GitLab, Bitbucket for version control, Agile methodologies with JIRA, Trello, ClickUp

Soft Skills & Leadership:

- Strong analytical and problem-solving abilities, Effective team collaboration and leadership
- Agile (SCRUM, Kanban) project execution, boosting team productivity

EDUCATION

BSc. (Hons) in Information Technology, Specialized in Software Engineering. Jan 2020 – Dec 2023

Sri Lanka Institute of Information Technology (SLIIT)

- Second Class Honors (GPA: 3.2/4.0)

ACHIEVEMENTS

- **Microsoft Imagine Cup (Feb 2024):** Top 20 Global Semifinalist for an AI-based research project | Recognized by Microsoft Sri Lanka as one of the top tech projects in the country | Successfully adopted by three tech companies, receiving positive feedback.
- **NBQSA ICT Awards (Aug 2024):** Advanced to Tertiary Round for innovative AI research.
- **Google Hash Code (2021 & 2022):** Hub Winner with 200,000+ points.
- **IEEE Research (2023 – 2024):** Developed world's first low cost stress detection computer mouse.

PROJECTS & LEADERSHIP

- **LEO (C1) Club Primero Awards (Dec 2021):** Led award-winning "Niroga" environmental project.
- **Open Source Contributions:** Actively contribute to GitHub projects in React, Next, Node.js, and AI.

ADDITIONAL NOTES

- Current Location: Sri Lanka
- Status: Available for full-time employment and sponsorship.
- Notice Period: 1 month