

Ananthu V

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Profile

Full-stack Software Engineer who turns complex integration problems into shipped, reliable features — 3+ years building enterprise SaaS for the higher-education sector. Focused on event-driven third-party integrations, AI-powered developer tooling, and cloud infrastructure. AWS Certified Cloud Practitioner with a track record of shipping complex integrations, hardening system reliability and security, and building internal tools that speed up delivery across teams.

Technologies

Languages & Frameworks: JavaScript, TypeScript, Python, Java, HTML/CSS, SQL | React, NestJS, Node.js, Next.js, Flutter, Material-UI

Data, Cloud & DevOps: PostgreSQL, MySQL, Redis, TypeORM, GraphQL, REST | AWS (Cloud Practitioner), CI/CD, S3, ECS, Datadog, Agile/Scrum

AI, Testing & Security: MCP server development, GitHub Copilot integration, RPA (Playwright), Jest, SonarQube, Snyk, Checkmarx

Experience

Software Engineer II, Ellucian Higher Education Systems — Remote July 2024 – Present

- Owned and served as the main point of contact for major functionalities connecting the ERP system to regulatory bodies such as SEVIS (US) and PRISMS (Australia), and integrated new ERP and regulatory systems to expand the application's market reach.
- Cut frontend development effort by 80% and improved AI-generated code accuracy by 90% by building an MCP (Model Context Protocol) server integrated with GitHub Copilot that converts screenshots and user stories into production-ready UI code, then extended it with migration tools and predefined prompts to speed up onboarding for new contributors.
- Eliminated manual data entry on an external web portal by building a Playwright-based RPA workflow that automates form submissions and data retrieval, integrated directly into a core platform feature.
- Improved system observability and security by building an ECS-level monitoring dashboard in Datadog and remediating vulnerabilities flagged by SonarQube, Snyk, and Checkmarx.
- Reduced front-end latency by 50% by optimizing ReactJS performance through debouncing and API-call caching.
- Kept releases on schedule across on-premise and SaaS environments by driving DevOps initiatives — CI/CD troubleshooting and hotfix management.

Software Engineer I, Ellucian Higher Education Systems — Remote July 2023 – July 2024

- Established front-end unit testing from scratch by introducing Jest, driving coverage above 85% and strengthening application reliability.
- Designed and built 5+ standalone backend systems using NestJS and GraphQL on a microservices architecture, decoupling services for independent development.
- Slashed API latency by 50% for infrequently changing data by implementing Redis caching via a reusable NestJS package, later migrating it to Valkey to reduce infrastructure cost by 20%.
- Reduced manual testing effort by 40% by automating UI test cases with Playwright, improving test reliability.
- Streamlined development time and ensured UI consistency by building multiple reusable React components, including a core JSON-to-form module that dynamically renders forms from JSON configurations.

Education

NSS College of Engineering July 2019 – July 2023

- BTech in Computer Science Engineering — CGPA: 8.9 / 10.0
- Certification:** AWS Certified Cloud Practitioner

Publications

EMG Interface for SCI Patients Nov 2023

Alphi Kurian Shajan, *Ananthu V*, Bageeradhan K H, Jayaraj J

Contributed the machine learning-based gesture classification approach for this EMG-controlled assistive wheelchair research.

10.1109/ICCCNT56998.2023.10308150

Projects

Electromyographic Interface for SCI Patients github.com/SAHAYOG13

- Enabled hands-free wheelchair control for spinal cord injury patients with an ML-powered EMG-based gesture recognition system, addressing cross-patient signal variation via robust classification. Tools: Python, Machine Learning.

SOLE — Social Video App github.com/Souls

- Connected users with shared interests worldwide via a real-time video app built with Flutter, Agora SDK, and Firebase.