

Abhijith P Subash

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Skills

Languages: TypeScript, JavaScript, Python, Embedded C, SQL, Rust

Technologies & Tools: Node.js, Express.js, NestJS, FastAPI, Angular, React.js, Next.js, Tauri, AWS, IBM Cloud, OpenShift, Kubernetes, Docker, Podman, Redis, MongoDB, Elasticsearch, RabbitMQ, Kafka, S3, EC2, Firebase, JBPM, BAM

Work Experience

Application Developer: Open source, IBM

Jul 2024 - Present

- Architected and developed an intelligent Event Correlation System for IBM's [AIOps](#) platform that automatically identified and grouped related infrastructure alerts based on causal relationships and semantic similarity, reducing alert noise by 60% and duplicate incident tickets by 50%.
- Designed and implemented advanced correlation models - including Topology based, System Hierarchy based, and Rule based correlation engines - enabling the system to intelligently consolidate multi source alerts into a single actionable ticket, improving operational efficiency and reducing incident resolution time by 50%.
- Implemented a self-learning feedback mechanism leveraging historical incident data and semantic embeddings to continuously refine correlation accuracy, achieving 30% higher precision and 40% faster ticket resolution, significantly reducing manual triage efforts.
- Transformed a legacy chatbot system into a scalable, microservices-driven framework using NLP (RASA), enhancing response efficiency, learning capabilities, and user experience. Deployed across Slack and Microsoft Teams, driving higher adoption and seamless integration with [AIOps](#) workflows.
- Designed and developed an automated calling system with intelligent routing to notify on-call engineers based on availability, escalation hierarchy, and incident criticality, improving operational responsiveness and reducing system downtime.

Software Engineer, NewAgeSys Solutions

Aug 2021 – Jul 2024

- Led a team of 3 engineers in the end-to-end design, development, and deployment of a comprehensive HR management suite using Angular, Node.js, NestJS, and AWS, automating recruitment, onboarding, event management, and leave tracking — boosting employee productivity by 50% and cutting onboarding time by 30%.
- Optimized a large-scale logistics platform, reducing map rendering time from 90+ seconds to 2–3 seconds for over 1 million data points by implementing efficient data structures, caching mechanisms, and optimized queries, dramatically improving performance and user experience.
- Enhanced employee workflows by designing and building automated systems for leave tracking, ticket management, and time tracking, improving operational transparency and significantly enhancing employee satisfaction and process efficiency.
- Continuous Integration/Deployment of Backend and Frontend apps, pull requests, code reviews, load/stress testing, and unit/integration/e2e testing

Embedded Engineer, Altersoft Innovations

Dec 2019 – Aug 2021

- Developed embedded firmware for Intelligent Public Toilets (iPToilets), enhancing sensor responsiveness and automating lighting, sanitation, and occupancy detection, improving system reliability and user experience.
- Designed and integrated compact, high-performance PCBs, reducing hardware size by 25% while achieving 99.8% fault tolerance through rigorous testing and seamless software integration.
- Built a Node.js-based monitoring application to track real-time status of iPToilets deployed across Gujarat under the Swachh Bharat Mission, enabling efficient remote monitoring and maintenance.

Education

College of Engineering Munnar (CUSAT) – Bachelor of Technology in Electrical and Electronics Engineering 2014 – 2018

Projects

- **ORTU | Cross-platform App** : ORTU is a lightweight, cross-platform clip board manager built with Rust and Tauri, designed for developers to quickly capture, organize, and reuse commands and code snippets without breaking their workflow. It features global hotkeys (Alt+C to capture, Alt+V to search/use), JSON/YAML-based storage for portability, clipboard integration, and categorized snippet management. With its fast, minimal design and seamless support for Windows, Linux, and macOS, ORTU helps developers stay productive by making snippet handling instant and effortless. [Ortu-app](#) | [Source-code](#)
- **FLAME-CORE | npm package**: FLAME-CORE is a comprehensive npm package designed to simplify Firebase operations. It provides developers with modular services for managing Firebase authentication, database, and storage with minimal boilerplate code. By using flame-core, developers can streamline common Firebase tasks, saving time and effort in their development process. [flame-core.npm](#) | [Source-code](#)
- **NOEX-CLI | npm package**: Developed NOEX-CLI, a command-line tool designed to streamline the creation and management of Noex applications, enabling developers to build production-ready Node.js projects effortlessly. It automates API endpoint generation, significantly reducing development time, and provides seamless third-party module integration, cutting effort by 50%. With customizable templates, it optimizes web development workflows, enhancing productivity and ensuring a scalable project structure. [noex-cli.npm](#) | [Source-code](#)
- **NOEX FRAMEWORK | framework**: NOEX-Framework – Built on Node.js and Express with an MVC architecture, NOEX-Framework provides a production-ready foundation for Node.js applications. Managed through NOEX-CLI, it streamlines development with multi-database support, third-party module integration, and essential features like security, scalability, and seamless extensibility. Designed to accelerate development, it significantly reduces the time required to build enterprise-grade Node.js applications. [Source-code](#)