

Lakshmanan Ravikumar

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Professional Summary

Experienced Software Engineer specializing in scalable web applications with 6+ years of expertise in React, TypeScript, Node.js, and FastAPI. Skilled in full-stack development, containerization, and cloud infrastructure. Passionate about building efficient, sustainable software solutions.

Skills

- **Programming Languages:** JavaScript, TypeScript, Python
- **Frontend:** React, Next.js, HTML, CSS, SCSS, Tailwind CSS
- **Backend:** Node.js, Express.js, Fastapi, GraphQL, gRPC, NestJS, Redis
- **Databases:** MongoDB, PostgreSQL
- **DevOps:** Docker, AWS (EC2, ECS, ECR, S3), Kubernetes, CI/CD
- **Testing Tools:** Jest, Cypress, Playwright
- **Tools:** GitHub, Jira, Keycloak

Experience

Consultant (Software Developer), Skill - GKN Aerospace (Trollhättan, Sweden) Nov 2024 - Present

- Develop scalable ML software services with FastAPI, Kafka, React and MLflow.
- Implement containerized solutions using Docker and Kubernetes.
- Manage microservices authentication and authorization with Keycloak.
- Build FastAPI-based microservices for seamless third-party integrations (e.g., SharePoint, OpenProject).

Software Development Engineer - Level II, Vacayoo Solution Sdn Bhd (Remote) Jan 2023 - Present

- Designed scalable back-end services using TypeScript, Node.js, NestJS, and Express.js.
- Optimized MongoDB/PostgreSQL queries, reducing API response times by 50
- Deployed microservices on AWS (ECS, EC2) with Docker for high availability.
- Implemented Kubernetes for container orchestration in a test environment.
- Mentored junior developers on best practices and code sustainability.

Senior Full Stack Developer, Softlets Private Limited (Madurai, India) July 2020 - Dec 2022

- Contributed to an account application with Python(django) and PostgreSQL, delivering data visualization and automated journal entries for streamlined accounting.
- Built a scalable and reliable payment microservice architecture, using RabbitMQ for asynchronous transaction processing and reducing failure rates.
- Designed and developed microservice architecture using Node.js, GraphQL, and gRPC for government asset management systems.
- Led the migration of cloud services to AWS and implemented CI/CD pipelines.
- Optimized software performance using modern frameworks and server-side rendering (SSR).

Full Stack Developer (MERN), Nyx Wolves (Chennai, India) Oct 2019 - July 2020

- Developed a scalable marketplace for heavy machinery rentals using the MERN stack, streamlining listings, search, and transactions.
- Implemented an AR experience with AR.js and A-frame, enabling QR code scanning to display 3D product advertisements.

Education

B.E. Mechanical Engineering, Rajalakshmi Institute of Technology

2017