

Vijay Mani Dev Kaluri

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Professional Summary

Software Engineer with 4+ years of experience across **Software Development, AI/ML Engineering, and DevOps**. Skilled in designing and deploying autonomous developer agents (**Devin AI, Cursor AI**), **full-stack applications** (Angular, Node.js, FastAPI), and cloud-native infrastructures (**AWS, Kubernetes, Terraform, CI/CD**). Proven track record of building **RAG pipelines, AI-powered microservices**, and scalable **DevOps workflows** that accelerate engineering productivity and deliver secure, enterprise-grade solutions in financial services and telecom domains.

EDUCATION

The University of Texas at Dallas <i>Master of Science, Information Technology and Management</i>	December 2024
Amrita Vishwa Vidyapeetham , Coimbatore, India <i>Bachelor of Technology, Computer Science and Engineering</i>	June 2021

SKILLS

Tools and Technologies:	AWS, GitLab (CI/CD), Docker, Kubernetes, Jenkins, Terraform, Ansible, Jira, Shell Scripting, Fast API, NoSQL, MySQL, MongoDB, Rest API, JFrog Artifactory, Node JS, React JS, Ruby on Rails, Angular JS, Linux, PowerShell, Devin AI, Cursor AI, Windsurf
Certifications:	AWS Cloud Practitioner, AWS Certified DevOps Engineer – Professional, Databricks Certified Data Engineer Associate
Programming:	Python, Java, JavaScript, Rust, Go Lang, TypeScript, PHP, SQL, YAML, Bash
AI & Gen AI:	Devin AI, Cursor AI, LangChain, OpenAI APIs, RAG Pipelines, LLM Integration

PROJECTS

WorldLink AI Layer (AI Gateway & Autonomous Developer Agents)

LangChain, FastAPI, OpenAI APIs, Angular, React, Kubernetes, Devin AI, Windsurf, Cursor AI

- Automated backend FastAPI microservices, validation logic, and prompt enhancement modules with **Devin AI**, reducing manual coding effort.
- Built data validation frameworks, error-handling scripts, and multi-phase checks for production pipelines using **Cursor AI**.
- Generated technical **documentation, code annotations**, and internal knowledge base updates with **Windsurf**, improving onboarding and **compliance tracking**.
- Developed APIs for SQL explanation, fraud detection, and auto-documentation; constructed **RAG pipelines** with **LangChain**, with **Windsurf** assisting in structured prompts and metadata enrichment.
- Built Angular dashboards with real-time monitoring, visualizations, and manual override of AI agent activities, with **Devin AI** helping scaffold components and workflows.
- Implemented **CI/CD** pipelines with **Bitbucket**, automated tests with **Pytest**, linting with **ruff**, and integrated **SonarQube** for static code analysis, using **Cursor AI** for scripting and automation support.
- Managed Bitbucket repositories, cloud deployment on **AWS**, role-based access, and IAM integration, with **Devin AI** and **Windsurf** assisting in automation and configuration.
- Coordinated Agile workflows and **sprint planning** via **Jira** and implemented adaptive security modules including **LLM-based** threat detection, prompt guard, and input/output validation.
- Reduced manual development effort by 40% and delivered secure, production-ready AI services with auditability, compliance, and centralized monitoring, leveraging **Devin AI, Cursor AI**, and **Windsurf** across all workflows.

PROFESSIONAL EXPERIENCE

AI ML Engineer World Link US , Dallas, Tx	April 2025 – Present
<ul style="list-style-type: none">Built retrieval-augmented generation (RAG) pipelines integrating LangChain, and OpenAI APIs for document Q&A, anomaly detection, and code summarization.Designed Fast API-based microservices for SQL explanation, fraud logic validation, and code documentation.Integrated Devin AI-style autonomous coding agents into engineering workflows to auto-generate tests, detect schema evolution, and automate repetitive coding tasks.Developed a full-stack API Gateway using FastAPI, Docker, PostgreSQL, reducing system errors by 90% and supporting multimodal AI integrations.Leveraged Cursor AI as an AI pair programmer to accelerate refactoring, unit test generation, and code reviews.Built Angular dashboards for developers to visualize agent activity, PRs, and real-time logs via WebSocket streams.	

Software Developer (Full stack) | University of Texas at Dallas, Dallas, Tx

May 2023 – January 2024

- Designed and Developed 30+ full stack applications using **Python (Flask), Node JS, Angular JS, TypeScript** and **NoSQL (MongoDB)**, widely adopted across the university, enhancing operational efficiency and user satisfaction
- Executed comprehensive, integration, and end-to-end testing to ensure code quality and functionality, using testing frameworks and tools to identify and resolve issues before deployment
- Developed and integrated **RESTful APIs** using **Node JS** optimizing data retrieval and manipulation for high traffic applications, resulting in a 50% reduction in response time and a 30% increase in overall application performance

Software/ DevOps Engineer | Dish Networks, Englewood, CO

June 2021 – January 2023

- Managed **Git workflows** for **version control** and documented key processes in **Confluence** and leading training initiatives to streamline code collaboration and promote continuous learning across 15+ teams
- Developed and optimized **Continuous Integration/Continuous Deployment (CI/CD)** pipelines in **Jenkins** and **GitLab**, reducing deployment time by 70% and minimizing production issues by 80%
- Collaborated with cross-functional teams to implement **Agile methodology**, resulting in a 20% boost in sprint velocity
- Led the migration of version control systems from **Bitbucket** to **GitLab** and **CI/CD** pipelines from **Jenkins** to **GitLab** for 30+ teams, improving development workflows and reducing maintenance complexity across the organization
- Spearheaded the migration of **on-premises** applications to **AWS**, resulting in a 40% reduction in operational costs
- Automated the provisioning of **Docker containers**, reducing environment configuration time by 60% and ensuring consistent environments across development, staging, and **production**, leading to a 30% decrease in deployment issue
- Integrated **SonarQube** into **CI/CD pipelines**, enforcing code quality standards, reducing technical debt by 40%
- Implemented **Kubernetes orchestration** for containerized applications, leveraging **Helm Charts** which improved deployment speed by **50%** and reduced manual intervention by **70%**
- Configured **Argo CD** for **continuous delivery**, enabling real-time visualization and automatic rollbacks for **Kubernetes** clusters, resulting in **25% faster recovery** from deployment failures and a 20% improvement in deployment success rate
- Architected scalable infrastructure on **AWS** using **Terraform**, improving system reliability and scalability by 30%

Software Engineer Intern (Full stack) | Cognizant, Bangalore, India

March 2021 – June 2021

- Developed and maintained scalable web applications using **React.js** for the frontend and **Node JS** for the backend, handling user interfaces and **RESTful** services for 500K+ users
- Collaborated in deploying applications on **AWS**, utilizing services like **EC2, S3, and RDS**, which resulted in a 25% reduction in deployment times and increased application availability
- Implemented **JWT-based authentication** and role-based access control to ensure secure access to the application