**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** December 2024

*Master of Science, Information Technology and Management*

**Amrita Vishwa Vidyapeetham**, Coimbatore, IndiaJune 2021

*Bachelor of Technology, Computer Science and Engineering*

**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 **SonarQub**e 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

* 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, COJune 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