

# AJAY KUMAR PONDUGALA

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## OBJECTIVE

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Results-driven **Software Engineer** with **1+ years of experience** in **backend development, API design, cloud computing, and ML workflows**. Passionate about building **scalable microservices** using **Python, Golang, Java, and AWS**. Experienced in **REST API development, CI/CD, security automation, and AI-driven applications**.

## EDUCATION

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**Bachelor of Technology in Computer Science Engineering**

**CGPA: 9.3**

Gayatri Vidya Parishad College of Engineering, Visakhapatnam, India

## TECHNICAL SKILLS

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- **Backend Development:** Python, Golang, Java, RESTful API Design, Microservices
- **Databases:** MySQL, PostgreSQL, DynamoDB, Vector Databases
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, API Gateway), Docker, Kubernetes, Terraform
- **AI & ML:** LangChain, RAG (Retrieval-Augmented Generation), LLM Integration
- **Automation & CI/CD:** Jenkins, GitHub Actions, Shell Scripting, CI/CD Pipelines
- **Security & Compliance:** OAuth 2.0, OIDC, Secure API Development
- **Networking & System Internals:** L2/L3, VxLAN, OAM, Telemetry, Data Center Spine-Leaf
- **Tools & Frameworks:** Flask, FastAPI, Redis, Celery, JIRA, Git, Docker

## EXPERIENCE

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**Software Automation Engineer**

July 2024 - Present

*Cisco, Bangalore, India*

- Designed and developed **scalable microservices and REST APIs** using **Python, Golang, and Java**.
- Developed and maintained **AI-powered automation frameworks** for cloud security solutions.
- Led **CI/CD automation using Jenkins and GitHub Actions**, reducing deployment time by 40%.
- Implemented **AWS-based solutions** (EC2, S3, DynamoDB, API Gateway) for cloud security applications.
- Ensured compliance with **OAuth 2.0, OIDC, and secure API development best practices**.
- Conducted **performance testing and optimizations** for high-availability cloud systems.

**Technical Intern - Enterprise Networking**

Jan 2024 - June 2024

*Cisco, Bangalore, India*

- Developed a **QoS Calculator and Visualizer** for optimizing enterprise network performance.
- Built an internal **API-driven automation framework** to streamline network diagnostics.
- Contributed to **network performance monitoring** and anomaly detection using AI models.

## PROJECTS

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**Scalable REST API for Enterprise Applications**

*Built a high-performance API backend for enterprise-grade applications.*

- Developed using **FastAPI, Golang, and Java**, optimized for low-latency responses.
- Integrated **JWT-based authentication, OAuth 2.0, and RBAC** for security.
- Deployed and managed on **AWS with auto-scaling, API Gateway, and DynamoDB**.

### **AI-Powered RAG Model for Security Threat Analysis**

*Implemented a Retrieval-Augmented Generation model for threat intelligence.*

- Used **LangChain, vector databases, and LLM integration** for security analysis.
- Optimized model inference with **fine-tuned embeddings and cloud deployment**.

### **CI/CD Pipeline Automation**

*Automated software deployment and monitoring using Jenkins and AWS.*

- Implemented **Jenkins pipelines** for automated testing and deployment.
- Optimized deployment workflows, reducing release cycles by **30%**.

### **CERTIFICATIONS & ACHIEVEMENTS**

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- **AWS Certified Solutions Architect – Associate**
- **Foundational Course on Generative AI – NVIDIA**
- **Machine Learning Research Paper Published**
- **Cisco GEN AI Hackathon Finalist** – Developed AI-driven automation solutions.
- **Certified in Python for Network Automation**