

# Skanda Chandrashekar

Amherst, Massachusetts, 01002

Phone: +1 (413) 315-1438

Email: [skanda473@gmail.com](mailto:skanda473@gmail.com)

LinkedIn: [skandac](https://www.linkedin.com/in/skandac)

GitHub: [github.com/skandac](https://github.com/skandac)

## Education

### University of Massachusetts at Amherst

Expected May 2027

Master of Computer Science | Coursework: Software Engineering, Network Security, Machine Learning

### R V College of Engineering, Bangalore

Aug 2018 – Aug 2022

Coursework: Object Oriented Programming, Intelligent Systems, Systems

GPA 3.7/4.0

## Projects

### UMass-Marketplace (In Progress)

- Developing a full-stack marketplace with **React**, **Spring Boot REST APIs**, and **PostgreSQL**, creating a secure, UMass-verified platform for student exchanges.
- Engineering a price-comparison feature by integrating third-party retailer APIs (Amazon, Walmart) to deliver real-time pricing insights for informed buying decisions.
- Implementing a **bulk upload feature** that parses Excel files with robust data validation to automate and streamline product listing creation.
- Establishing a **CI/CD pipeline** for automated testing and continuous deployment to a live **cloud-hosted environment**, ensuring reliability and rapid iteration.

### LLM based Resume-Job Match Analyzer (RAG Pipeline)

- Built an **LLM-powered** personalized resume-job match analyzer using a Retrieval-Augmented Generation (**RAG**) pipeline with **LangChain**, **FAISS**, and **OpenAI APIs** to semantically evaluate candidate-role fit.
- Implemented **vector-based chunking and embedding** of resumes and job descriptions to enhance context retrieval and fine-tuning accuracy, improving matching precision over traditional keyword screening.

### Login Registration Backend System

- Developed a secure authentication and registration platform using **Java Spring Boot** and **PostgreSQL**, integrating **JWT**, **OAuth2**, **2FA**, and **RBAC** to reduce login vulnerabilities by 95%.
- Containerized and deployed the application on **AWS** with **Docker**, adding rate limiting, monitoring, and audit logging for scalable and reliable performance.

## Experience

### Oracle Inc. – Session Border Controller Team

Aug 2022 – Aug 2025

Technical Analyst I

Bengaluru, Karnataka

- Simulated customer network environments in VM/Cloud labs, reproducing issues across **CLI**, **REST APIs**, routing, **GUI monitoring**, and **SSH**, which accelerated troubleshooting and improved resolution times by 40%.
- Automated network scenario testing with **Python**, **Bash**, XML in **Linux**, validating fixes that reduced customer production outages by 20% and accelerated patch release cycle.
- Conducted TCP/UDP packets analysis to determine quality of service analysis and mitigated **TLS/SSL** encryption issues, strengthening network security and improving call reliability across enterprise clients.
- Analyzed and monitored production system logs for root cause analysis related to heap memory management, server/VM crashes, patch upgrades, load balancing and access control, reducing incident resolution time by 50% and improving reliability.
- Executed functional and regression testing on new software patches, working closely with development and QA teams to ensure timely issue resolution and release quality.

### CISCO Center of Excellence, RVCE

Aug 2020 – Sept 2020

Student Intern

Bengaluru, Karnataka

- Designed a **Python-based** smart parking management system integrating **YOLOv5**, **KNN**, and **Haar cascade** preprocessing for vehicle detection, license plate recognition, and predictive analytics with 90% accuracy on 10K+ images.
- Developed a **REST API** backend to handle real time booking, payments and navigation ensuring seamless integration with parking management system enhancing user experience.

## Technical Skills

**Languages:** Python, Java, SQL, Bash, XML.

**Frameworks & Libraries:** Spring Boot, FastAPI, LangChain, Hugging Face Transformers

**Database Technologies:** PostgreSQL, MySQL, FAISS

**Cloud Infrastructure Tools:** Docker/Kubernetes, Oracle cloud OCI\*, Unix/Linux.

**API & Testing tools:** cURL, REST API, OpenAI, API, Postman, Wireshark, Git/GitHub

**Concepts:** Distributed Systems, Retrieval-Augmented Generation (RAG), Object-Oriented Design, Algorithms, SDLC Lifecycle