

# Hemanth Marupudi

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## SKILLS SUMMARY

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**Languages:** C++, C, Java, Python, Swift

**Technologies:** Docker, Kubernetes, Flask, Django, Git

**Tools/Platforms:** AWS, Linux, Ansible

**Cloud:** Cloudflare, EC2, S3, RDS, Bedrock, CloudFront

**Databases:** SQL, MongoDB, DynamoDB

**Coursework:** Data Structures & Algorithms, Operating Systems, Software Design, DBMS

## PROJECTS

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**AWS & Ansible Chatbot** | *GPT-4.0-turbo, Python, Ansible, AWS-CLI* **February 2024**

- Ability to make real time configuration updates to any cluster of servers with ultra-low latency.
- Automates EC2 instance provisioning based on user-provided configurations, thereby improving deployment efficiency.

**Geo Alert App** | *SwiftUI, Python, DynamoDB, AWS API-Gateway, AWS Lambda* **November 2023**

- Engineered an advanced iOS app to alert users when they entered or exited pre-specified locations.
- Implemented dual authentication methods, including Sign-in with Apple and WhatsApp OTP-based login, enhancing user convenience.
- Architected a scalable backend with DynamoDB for data storage and AWS API-Gateway for interaction with the backend.

**Ron Swanson Twitter Bot** | *Python, AWS RDS, Twitter API, Cron Job* **April 2023**

- A Twitter Bot that tweets GIFs of Ron Swanson every three hours.
- Integrated cron job to schedule retrieval of GIFs from AWS RDS and subsequently publishing to twitter.

**TeleLink Chat** | *Telegram Bot API, Python, AWS RDS* **January 2023**

- Developed a Telegram bot facilitating anonymous chat interactions between users.
- Implemented user matching algorithms to connect users based on waiting time.

## EXPERIENCE

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**Undergraduate Student Researcher** **March 2024 – Present**

*LPU Department of Computer Science*

*Punjab, India*

- Researched application of K-Nearest Neighbour (KNN) model for cab demand prediction.
- Assisted with writing research papers and presentations for conferences.

## ACHIEVEMENTS

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**Among top 5% students in class of 2025.**

- Recognised among the top 5% students in class of 2025 for outstanding academic performance with a class rank of 93 among 2500+ students.

**Best Research Paper Award.**

- Awarded at TIACOMP 2024 for outstanding research contributions.

**Winner of DevOps Hackathon.**

- Developed and presented the project AWS & Ansible Chatbot, subsequently securing the 1st position.

**2nd in Technocean Research Presentation.**

- Secured 2nd position among 200+ participants in Research Presentation.

## CERTIFICATES

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**Building Scalable Java Microservices with Spring Boot and Spring Cloud** | *Coursera* **May 2024**

- Learnt about Spring Boot, Spring Integration, and distributed tracing using Cloud Trace.

**Red Hat System Administration I & II** | *Redhat* **March 2024**

- Hands-on Experience managing Linux systems. RHCSA Ready.

## EDUCATION

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**Lovely Professional University**

**August 2021 – Present**

*Bachelors of Technology in Computer Science, Finance minor | CGPA: 8.65/10*

*Punjab, India*