

Hemanth Marupudi

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SKILLS SUMMARY

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

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

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

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

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

Lovely Professional University

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

August 2021 – Present

Punjab, India