

# Parth Mahale

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## Summary

Software Developer with experience working on various aspects of full stack software development from gathering requirements to designing, developing, testing and deploying web based applications.

## Education

University of California, Santa Cruz

Bachelor of Science, in Computer Science

- Awards: Dean's List 2021-2023
- Ranked 1<sup>st</sup>: Awarded for best functioning full-stack web app.

Santa Cruz, CA

Sept 2019 - June 2023

## Technical Skills

- **Back-end :** Java 8/11, Python
- **Front-end :** JavaScript (React), HTML5
- **Databases :** MySQL
- **Cloud-Services :** AWS (S3, EC2, RDS, Lambda, IAM, API Gateway), Terraform
- **Framework :** Spring-Boot( MVC, Security, REST API, Spring-Cloud)
- **Other Technologies:** Git, Docker, Kubernetes, Jenkins, GraphQL, GPT GenAI
- **Testing:** Mockito, JUnit, Acceptance, PV

## Work Experience

ArborSys Group

San Diego, CA

Technical Engineer

May 2024 - Currently

- Ensured software operations are supported for our clients.
- Conducted **acceptance testing** to ensure system functionality met business requirements.
- Performed **platform validation testing** across multiple environments to verify system compatibility.
- Executed debugging and issue resolution by analyzing log files, tracing root causes and implementing fixes.
- Utilized Azure/GraphQL/Claude **GenAI-agent** combo to perform functional testing.

Cogent Infotech

Pittsburgh, PA

Java Full Stack Developer

Aug 2023 – April 2024

- Followed **SDLC and TDD** to develop a simple fraud detection application. A browser-based system with multiple security levels designed to decrease payment fraud by eliminating duplicate or incorrect payment modes.
- Developed and tested using object oriented technologies like **Java's Spring Boot, Hibernate, MVC, and REST API**.
- Created REST API using **microservice** architecture from **Spring Boot, Cloud Gateway**, pub/sub kafka and solving performance issues using distributed tracing.
- Experience with relational DB like **MySQL** and DevOps tools like **Docker, Kubernetes, GIT, Jenkins**.

K2 Corp

San Jose, CA

Software Engineer Intern

April 2023 – June 2023

- Helped build web scrapers using Python and BeautifulSoup framework along with tools like Selenium to load content dynamically.
- Implemented rate limiting and error handling methods. Parsed XML/HTML data and stored in DB.

## Projects

Rag Chatbot

- Built chatbot which processes and queries PDF documents. The system extracts text and images from PDFs, preprocesses the data, and stores it in a vector database (Pinecone) for retrieval.
- The chatbot calls OpenAI 4.0 APIs which hits the Pinecone VectorDB to provide relevant responses

Distributed System: Key-Value-Store

- Created a distributed fault-tolerant key value store with **Python, REST and Spring Boot** using replication protocol similar to Paxos for data consistency and Eureka server's Service discovery for service coordination.