

# ADITYA PATNI

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## EDUCATION

### Master's in Computer Science & Engineering (MS,CS)

Santa Clara University — GPA: 3.9/4.0

Graduation: March 2024

Santa Clara, California

Relevant Coursework: Distributed Systems, Algorithms, Operating Systems, Machine Learning

### Bachelor's in Computer Engineering (BTech, CE)

KJ Somaiya College of Engineering, Mumbai University

Graduated: May 2019

Mumbai, India

Relevant Coursework: Software Engineering, Object Oriented Programming, Networking, Cloud Computing

## TECHNICAL SKILLS

Languages	Python, Java, JavaScript, Go, TypeScript, Shell Scripting, HTML/CSS, JSON
Databases	Relational (PostgreSQL, MySQL), Non-Relational (Redis, MongoDB)
Web Technologies	Flask, Django, Spring boot, Spring MVC, React.js, Node.js, WebSockets, gRPC, REST APIs, Micro-services
Tools & Platforms	Git, Linux, Docker, AWS, Kubernetes, Terraform, Jenkins, Swagger, Jira, RabbitMQ, Tensorflow, Agile
Achievements	Winner - 'Code in X' hackathon, Oracle Certified Java SE 8 programmer(OCJP), AWS Developer Associate

## EXPERIENCE

### Santa Clara University

Graduate Teaching Assistant

January 2023 - Present

Santa Clara, California

- Collaborated with 2 professors to craft curriculum for Object-Oriented Programming (CSEN 275) course, including software methodologies, agile frameworks, design patterns, and testing frameworks, currently used by 200+ students.

### Tech for Good Inc

Software Engineer Intern

July 2023 - September 2023

Santa Clara, California

- Developed cluster creation, node management, and service monitoring APIs using Java SpringBoot in Kubernetes for ML product Flant, optimizing cloud service instances and reducing costs by 14%.
- Managed and maintained multiple CI/CD pipelines, including Image creation and Unit testing resulting in streamlined development workflows and higher code quality.
- Containerized application using Docker commands to deploy 4 micro-services, reducing deployment time by 75%.

### vPhrase Analytics Solution Pvt Ltd

Software Development Engineer

June 2019 - May 2022

Mumbai, India

- Collaborated with the software engineering team to convert legacy services into independent micro-services with well-documented REST APIs for re-building our SaaS BI product named Phrazor.
- Built an auto-completion feature for NLP engine using Python, WordNet, MS SQL that improved query results by 20%.
- Implemented a chat bot for retail store management using AWS's Lex, Lambda, Dynamo DB, and CloudWatch.
- Led the development of end-to-end ETL pipeline using Pandas, Spark, MySQL, D3.js, PowerBI which auto-generated 300+ monthly employee reports for each of the 18 territory managers.
- Implemented a service oriented financial portfolio solution by developing RESTful endpoints using Django, MySQL for risk profiling & providing stock recommendations, currently used by 10K + clients.
- Created an end-to-end automation test suite with Python scripts, Pytest testing framework to be used on Postman, JUnit, Cucumber maintaining code coverage of 100%, logging errors which improved code quality by 26%.

## ACADEMIC PROJECTS

### Discord Prototype | Python, Django, Jinja2, HTML, CSS, JavaScript

- Developed a scalable multi-threaded application enabling students to CRUD study sessions.
- Utilized Django's MVT architecture, authentication mechanisms, HTTP URL routing, Jinja2 templates and pagination.

### Amazon Prototype | MongoDB, React.js, Node.js, Express.js, Redux, Redis caching, JWT, WebSockets, Server Side pagination

- Built a service-oriented architecture e-commerce application employing asynchronous communication using NATS event bus implementation. Customers can view products, add them to cart, purchase via stripe payment gateway.

### Handshake Prototype | MERN stack, Kafka, JWT, Passport, Redux, RDX, JMeter, Mocha, Client Side pagination

- Built a scalable handshake clone application using Kafka producer-consumer model facilitating job posting, event management, and student applications.
- Implemented OAuth & Passport-JWT for secure, authorized messaging & seamless student resume uploads.

### SolarWise | Python, Flask, ML, HTML, CSS, JavaScript, Axios, Google DialogueFlow

- Developed a user-friendly web application for solar plant installation provider, conducted a comparative analysis of ML algorithms to determine that SVR had the highest solar energy prediction accuracy of 95% in Mumbai. Research Paper