ANKUR PATEL

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Education

Arizona State University, Tempe, AZ   **08/2023 - 05/2025**
Master of Science in Computer Science   *GPA 3.8/4*
Birla Vishvakarma Mahavidyalaya, India   **06/2018 - 06/2022**
Bachelors of Technology in Computer Engineering   *GPA 8.01/10*

Experience

Crest Data Systems   **06/2022 - 07/2023**
Software Engineer   *Ahmedabad, India*
- Worked for **Morphisec** on development of an **endpoint security multi-tenant platform** with **Angular, NGXS, TypeScript, WebSocket, Puppeter, Spring Boot** serving **1M+ tenants**.
- Implemented a **Single Sign-On (SSO)** feature via **wrapper on Frontegg APIs in Spring Boot**.
- Integrated Notification center with websocket to alert on updates and latest threats.
- Developed, enhanced, and integrated custom and generic UI components into various dashboards based on tenant level while enforcing **Role-based Access Control** (RBAC) on all the features.
- Participated in Agile software development processes including **Sprint planning, Grooming, PI planning, and Retrospectives** completing assigned tasks within established timeframes while maintaining code quality standards.

Crest Data Systems   **01/2022 - 06/2022**
Software Engineer Intern   *Ahmedabad, India*
- Assisted in developing an in-house tool for syncing Vtiger CRM and Jira, eliminating communication gaps.
- Implemented scheduler and **REST APIs** using **Flask**, and designed the UI with **Angular, Material UI, Storybook** and hosted on **NGINX server** with **AWS** EC2 instance.
- Performed unit testing with **jest** and end to end testing with **cypress**.

Bhaskaracharya National Institute for Space Applications and Geo-informatics   **06/2021 - 07/2021**
Web Development Intern   *Gandhinagar, India*
- Contributed to the Remote Online Assessment application with **React.js, Spring Boot, and PostgreSQL**.
- Programmed **REST APIs** for restricting and managing access to quizzes from the Admin Panel.

Confidosoft Solutions   **06/2020 - 02/2021**
Software Development Intern   *Vadodara, India*
- Worked on a smart-sensor monitoring system for manipulation and signal processing in real-time with **React.js, Node.js, Python, Kafka, and MongoDB.**

Projects

AI Assitant | *LlamaIndex, TypeScript, API Gateway, Lambda, React.js, Tailwand* | github   **06/2024**
- Building a Retrieval Augmented Generation (RAG) system with LlamaIndex, Embeddings, and Qdrant.
- Adding Agent/tool to check availability in google calendar.
- Developed fronted with React.js, Tailwannd and endpoint with Lambda, API Gateway.

Hybrid Batch Processing | *React.js, Lambda, DynamoDB, AWS Cognito, API Gateway, S3, Tailwand* | github   **04/2024**
- User authentication with Cognito User Pool in React.js UI, exchanges token to get federated identity with identity pool.
- File is uploaded to S3 and metadata in dynamoDB via lambda, batch processing via EC2 instances.

Nanobase | *Angular, Flask, S3, MySQL, Elasticsearch* | github   **02/2024**
- Building community database for nanostructure to enhance collaboration, a tool to upload, edit, characterize, and visualize structures.

Bitcoin Price Sentiment Analysis | *Deep Learning, Azure, Android, Firestore, Python* | github   **10/2021**
- Led development of an LSTM model that analyzes and predicts cryptocurrency trends with Reddit sentiments, news feeds, and historical data.
- Built a pipeline to perform sentiment analysis. Hosted backend on Azure and developed an Android Application.

Technical Skills

Languages: Java, JavaScript, TypeScript, Python, HTML/CSS, SQL
Frameworks & Libraries: Angular, RxJS, React.js, Langchain, LlamaIndex, Flask, Node.js, Spring Boot, Docker, AWS CDK
Databases & Streaming Services: Postgres, MySQL, MongoDB, DocumentDB, Kafka, Elastic Search, QDrant
Developer Tools: AWS, JIRA, BitBucket, Git Bash, VS Code, GitHub, Figma, IntelliJ, Nx, Postman

Certifications

- AWS Certified Solution Architect Associate | link