Soham Krushesh Joshi
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EDUCATION

Arizona State University — Tempe, AZ
Master of Science in Computer Science (GPA : 4.0 / 4.0) — *January 2021 - December 2022*

Nirma University — Ahmedabad, IN
Bachelor of Technology in Information Technology (GPA : 7.9 / 10) — *July 2016 - June 2020*

EXPERIENCE

Roku Inc. — San Jose, CA
Software Engineering Intern — *May 2022 - Present*

- Working on designing the customer interface for the Roku Ads manager with the Advertising Engineering team. Collaborating extensively with a vibrant domain of software engineers and product managers.
- Responsible for building the backend services such as API endpoints for performing CRUD operations on the application's resource using Node.js.
- Creating the user interface that provides a comprehensive overview to the brands about their advertising campaign using Sass and React with TypeScript along with writing test suites using chai, mocha and Postman API client.
- Daily duties involve managing merge requests using GitLab, prioritising and resolving developer issues using Jira and incorporating the feedback from the QA team to maintain a clean code environment.

Stallion Archisys Ltd. — Ahmedabad, IN
Software Development Intern — *January 2020 - May 2020*

- Worked on developing a web application for a city-based grocery store. Developed the backend of the application with Python's Django & Django rest framework along with the Oracle SQL database.
- Designed the customer and trader interfaces of the application using React and SaaS.
- Designed a deep-learning-based product recommendation engine using Auto-encoder neural networks to generate recommendations for the user based on the purchase/search history. Achieved a hit ratio of 90 %.
- The system also generates recommendations based on the timely trends of the user's purchase habits using LSTM.

Stallion Archisys Ltd. — Ahmedabad, IN
Software Development Intern — *May 2019 - July 2019*

- Created a multi-threaded web scraping application for the company's Email marketing campaign. The system scraps target audience data with each thread handling approximately 50 web pages.
- Scraping is done using Python's BeautifulSoup and Selenium frameworks. Collected data is processed and stored using the Pandas framework. This caused a 25% increase in the marketing team's reach.
- Created a logging system that provides a centralised access to the system logs for the organisation's distributed computer network. The logs are dumped and processed using cron jobs at a rate of 5000 log entries every hour.
- Devised a web application with a backend supported by Node.js & express framework and created visualisation dashboards using d3.js. This reduced the developer debugging time by 40%.

PROJECTS

Face Recognition as a Service — *April 2022*
Keywords: Amazon Web Services (EC2, SQS, S3, Lambda, DynamoDB), Docker, Python, Boto3, Raspberry pi

- Built an elastic application using AWS EC2 that performs face recognition on the images sent as HTTP requests.
- All Images are queued into AWS SQS queues and stored into AWS S3 buckets from where they are read and processed. The application scales in and out depending on the number of requests queued at a time.
- Extended the project to perform live face recognition on the video feed recorded from a raspberry pi device.
- Deployed docker-based AWS Lambda functions that trigger on uploading a video frame to a S3 bucket and return the recognised person's academic details from an AWS DynamoDB database to the edge.

Secure Hospital Management System — *April 2022*
Keywords: Python, Django, React, Amazon Web Services (Elastic Beanstalk, EC2), Hyperledger, Express

- Designed a hospital management system using Django and React deployed on AWS Elastic Beanstalk servers.
- Implemented authentication, authorization and secure session management using Django.
- Deployed a Hyperledger Fabric based web service to store sensitive user data over a blockchain. It was designed as an Express- based API that was deployed on AWS EC2 instances.

SKILLS

- **Languages**: JavaScript, Python, Java, HTML5, CSS3, Sass.
- **Coursework**: Cloud Computing, Distributed Database Systems, Data Visualisation, Machine Learning, Deep Learning.
- **Frameworks**: React, Node.js, Express, Django, Flask, Selenium, Chai, Mocha.
- **Tools**: Amazon Web Services (AWS), Docker, Git, Github, Gitlab, Jira, Postman, PostgreSQL, MongoDB.