

NIKHIL MUKESH SAOJI

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EDUCATION

Master of Science in Computer Science

Aug 2021 - May 2023

University of Florida, Gainesville, Florida, United States - GPA 3.96/4

Coursework: Analysis of Algorithms, Advanced Data Structures, Computer Networks, Database Management Systems, Database System Implementation, Distributed Operating System Principles, Entrepreneurship for Engineers, Software Engineering

Bachelor of Technology

Jun 2014 - May 2018

Savitribai Phule Pune University, Pune, Maharashtra, India - GPA 8.99/10

TECHNICAL SKILLS

Languages: *Advanced* – Python, Golang, SQL

Medium – Java, JavaScript, Node.js, F#, C++

Databases: Oracle, SQL Server, SQLite, MongoDB

Backend technologies: Flask, Gin, Chi, Express.js

Frontend technologies: Bootstrap, D3.js, Angular

Other web technologies: AJAX, REST

Cloud services: AWS EC2, S3, CodeDeploy

DevOps tools: Git, GitHub, Docker, Kubernetes, Helm, NGINX

Documentation, testing, and other tools: OpenAPI, Stoplight Studio, Postman, Power BI

WORK EXPERIENCE

Full Stack Software Engineering Intern, Schlumberger, Houston, Texas, United States

May 2022 - Aug 2022

- Developed an application that gives controlled access to the ProcessOps usage analytics
- Usage data includes things like the number/time distribution of user sessions, type of UI component being used, etc.
- Lead its development and deployment to the pre-production environment in just 2 months by following coding practices
- Helped product analysts understand the most used features by creating a Power BI dashboard to analyze the usage data

Associate Data Scientist, AlgoAnalytics Pvt. Ltd., Pune, Maharashtra, India

Jun 2019 - Jun 2021

- Developed machine learning models and deployed them in production by creating backend APIs using Flask framework
- Tracked customer behavior inside a retail store by developing a multiple camera person tracking algorithm
- Identified unauthorized access to the sensitive information by building a (image + natural language) processing pipeline
- Designed a scalable face recognition pipeline with an accuracy of 0.95 using open-sourced machine learning models [Video]
- Mentored 2 undergraduate student interns by prioritizing their tasks and helping them solve technical issues
- Identified vehicle speeding with less than 7% error in speed measurement, by running an image processing pipeline on videos captured by traffic monitoring cameras [Blog]

ACADEMIC PROJECTS

Ira - The e-learning platform

Jan 2022 - Apr 2022

- Practised agile methodologies by developing a full-stack web application in Golang and Angular.
- Facilitated user management, course & video module creation, and enrollments by creating respective backend APIs
- Built cloud storage using AWS S3 buckets to store course-related videos
- Automated build, test, and deployment workflow using GitHub Actions, Newman CLI, AWS CodeDeploy, and AWS EC2 [App][Code][Wiki]

Dashboard for COVID-19 Impact Trend Analysis

Sep 2021 - Dec 2021

- Built a web app to show trend analysis of COVID-19 impact across the US and its comparison with the rest of the world
- Designed web pages for individual analysis. It had options to select *fromDate*, *toDate*, and *listOfStatesOrCountries*. Multiple line charts were overlapped to compare various entities, where each line represents the trend for a single entity [Code]

Distributed Systems' Projects

Sep 2021 - Dec 2021

- Built an algorithm that runs on multiple core machines to mine coins with the given number of leading zeroes. The algorithm was able to mine coins with a maximum of 7 leading zeroes using 5 machines simultaneously
- Experimented with gossip protocol on various network topologies for group communication and distributed computation
- Implemented Chord protocol for peer-to-peer distributed hash tables and analyzed its performance
- Designed Twitter engine using Actor model in F# with Akka.Net. Analyzed its performance using a simulator that simulates 1000s of users and their activities. Added WebSocket interface to achieve real-time feed for every user [Video]

P2P File Sharing Software (Simpler version of BitTorrent)

Sept 2022 - Dec 2022

- Implemented a P2P protocol (9 types of communication messages) in Java for sharing files across peer devices
- Successfully transferred files upto few megabytes among tens of pre-configured peers [Code][video]

ACHIEVEMENTS

- Academic achievement award for enrollment to the MSCS program, University of Florida

Aug 2021

- Best employee of the quarter award, AlgoAnalytics

Jun 2020