

MOHIT MAHESH VASWANI

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EDUCATION

University at Buffalo, The State University of New York, Buffalo NY

August 2023 - December 2023

Master of Science: Computer Science,

CGPA : 3.8

Relevant Coursework: Compiler Design & Features, Analysis of Algorithms, Operating Systems, Database Management

Ahmedabad University, India

August 2017 - May 2021

Bachelor of Technology: Information and Communication Technology,

Relevant Coursework: Advanced Analysis of Algorithms, Software Development and Engineering, Cloud Computing, Operating Systems, Database Management Systems

SKILLS & TOOLS

Languages: JAVA, C++, Python, JavaScript, Latex, Go-lang, Verilog.

Data Management & Analytics: MySQL, MongoDB, DynamoDB, AWS-S3.

Software Development-Frameworks: React.js, Springboot, Node.js, Express.js, Django, Selenium, REST-API.

Tools: Eclipse, Jupyter, Visual Code Studio, Overleaf, JIRA, Postman, IntelliJ.

Cloud Frameworks/Automation : Amazon Web Services, Jenkins, Azure, Docker, Kubernetes, Github-CI/CD.

WORK EXPERIENCE

Software Developer Intern | EutelSat-OneWeb | Mclean, Virginia:

May 2023 – Present

JavaScript, ReactJS, FastAPI, Docker, CI-CD, Kubernetes, Selenium, Python, AWS-S3, MongoDB

- Designed geo-spatial map-based UI components in React JS, providing ability to create shapes on global map, used to deliver seamless satellite-based-internet supply over those shapes for OneWeb's clients.
- Developed robust APIs in Python using the FastAPI framework fetching data from MongoDB, enhancing backend functionality, and improving system performance for OneWeb's software to manage over 600 satellites.
- Reduced deployment time by 20% by automating Gitlab CI/CD pipeline for streamlined deployment of Docker-images on Kubernetes cluster.
- Implemented comprehensive testing strategies (unit-testing) in Selenium, decreasing the number of bugs and issues, resulting in improved production stability and reliability.

Software Developer | Crest Data Systems (Client: Splunk) | India:

January 2021 – August 2022

Python, FastAPI, ReactJS, Next-JS, Splunk, JavaScript, REST-API, Selenium, Docker, Jenkins

- Improved and optimized System performance by developing web applications utilizing ReactJS for the front-end and Python for the back-end technology.
- Worked in collaboration with core team of Splunk-App-Stream as contractor of Splunk.
- Led the development of a robust microservices architecture using Python-FastAPI, resulting in a 30% improvement in application scalability and a 40% reduction in infrastructure costs.
- Impacted more than 65,000 clients operating the Splunk-App-Stream supporting more than 30 network protocols.
- Utilized Jenkins for ensuring stable development environment and deployed the web-applications on Amazon-Ec2 instances.

Software Developer | Shree Enterprise | India:

January 2020 – December 2020

JavaScript, Material-UI, Python, REST-API, Selenium, Docker, AWS-S3

- Built e-commerce web application to manage sale of products which enabled the organization to continue selling products online in the time of COVID-Lockdown.
- Developed Web based scalable application to manage internal supply chain of electronics.
- Optimized MySQL database performance by skillfully modifying functions, cursors, queries, triggers, and stored procedures, resulting in an impressive 84% system performance improvement.
- Implemented REST-APIs using python's REST which would allow users to add/update configurations used to manage data.

PROJECTS

Career Guidance System, Forward Focus | Software System Design | Django, ReactJS, AWS | [Link](#)

- Developed user friendly UI for a stand-alone web-application helping undergraduate-graduate students for career guidance.
- Utilized React-JS for the frontend of the application, used Bootstrap4 methodologies to make the application responsive.
- Used Django framework of Python as middleware/backend of the app, to improve scalability of the application.

PintOS Operating Systems Project | Multi-Threading, Compiler Code, Memory Management | C/C++, Linux

- Designed kernel modules including threads management, user programs management and virtual memory module.
- Utilized multithreading in C++ to develop thread management module in pintOS.
- Demonstrated a primary focus on utilizing Linux systems to simulate the performance of pintOS during the development phase.