Mohit Rachuri

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PROFESSIONAL SUMMARY

Inquisitive, Experienced Software Engineer with 5.3 years of diverse work experience in the field of software development. I love to brainstorm on new ideas, business problems and find Simple and Scalable solutions for them.

WORK EXPERIENCE

University Of Maryland   **College Park, Maryland**
Software Engineer II   *April 2022 - Present*
- Maintained and refactored a web-based incentivized administration and transportation data analysis system on AWS using React.js, Node.js, MongoDB, Nginx.
- Refactored and executed a modularized RESTful API-based traffic simulation website using Flask, React.js, Material UI and Mapbox GL. Designed database schema supporting 10G raw data, and reduced the response time from 2s to 400ms.
- Designed and implemented user interface and Created custom directives in **Reusable components** (multi-field form elements, background file uploads).

Fraunhofer USA CMA (Center for Experimental Software Engineering)   **College Park, Maryland**
Junior Research Scientist   *October 2021 – April 2022*
- Work on data visualization and machine learning models for predictive modeling/ analysis systems.
- Developed algorithm to identify dynamic patterns detected in data that is used for predictive analysis, information loss approximation, feature detection.
- Built a UI Dashboard using Vue JS, for the users to see data of various sensors using Chart JS and send alerts when an abnormal activity is detected.

Accenture Solutions PVT LTD   **Bengaluru, India**
Application Developer **(Full-Stack Development)**   *June 2020 – July 2021*
- Worked with Business Problem Analysis, Design Analysis, Agile Planning.
- Coded the frontend using Oracle Tools (ADF) and backend internal flow using Bootstrap, JQuery.
- Architected and administered Restful APIs using Node.JS, Connecting to Oracle Databases.
- Used **SVN** for version control for project and issue tracking. Involved in integration testing and defect fixing.
- Deployed applications on multiple WebLogic Server instances and maintained Load balancing, High availability and fail over for the server. **Log4J** helps for logging purposes and debug levels are defined for controlling what we log.

The Climber   **Bengaluru, India**
Full-Stack Software Engineer   *March 2018 – May 2020*
- Developed views with Python and Django view controllers and templating language to create user-friendly web interface.
- Consumed messages from JMS driven beans and Active MQ. Integrated Active MQ services with Beans.
- Improved AngularJS Controllers to maintain each View data and Service calls using Angular Factory.
- Used AngularJS to create views to hook up models to the DOM and synchronize data with the server as a SPA.
- Expertise with employment of Spring Kafka and Zookeeper apart from JMS as messaging service.
- Worked on Spring Core, Spring boot, Spring Security and Spring MVC architectures.
- Deployed the Application into Docker container and made easily accessible at runtime using Pivotal Cloud Foundry

TECHNICAL SKILLS

Proficient in: Python, Java, JavaScript, C/C++, TypeScript, Data Structures, Algorithms, System Design, OOPS, API's, SDLC.
Front End: React JS,Angular Js, Html5, CSS, Bootstrap, Java Script, J Query, Material UI.
Back End: NodeJS, Flask, Spring Boot, Graph QL, Express JS.
Cloud Technologies: Azure, AWS (EC2, S3, lambda, API Gateway, Cloud Formation).
Containerization: Docker, Kubernetes || **Repository Control**: Git, GitHub, Bash, Gitlab, JIRA, Azure pipelines.
Databases: MySQL, PostgreSQL, Oracle DB, MongoDB, AWS DynamoDB, Cockroach DB.
Soft Skills: Initiative, Leadership, Resourcefulness, Communication, Public Speaking

EDUCATION

University of Maryland, College Park   **College Park, Maryland**
Masters in Software Engineering   *August 2021 – December 2022*
SRM Institute of Science and Technology   **Chennai, India**
Bachelors of Technology in Electronics and Communication Engineering   *June 2016 – July 2020*

ACCOLADES & EXTRA - CURRICULAR ACTIVITIES

Outstanding contribution to the development of our new project at UMD, resulting in a 20% increase in efficiency.   Aug 2022
Spot Award (Accenture) in recognition of ability to solve complex problems and innovate solutions.   *May2021*
Detection of Glaucoma Using Fundus Images of Retina   *Jan 2020 - July 2020*
- Worked as a lead in Developing and Publishing the Research Paper. ISSN: 2347-7180.
- Presented a computational tool for automatic glaucoma detection. Researched and reported improvements for disc segmentation, and a **Deep Learning – Neural Network Box** method to classify the disease.