Mohit Rachuri

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SUMMARY

Inquisitive, energetic upcoming Software Engineering graduate with nearly 2 years of diverse experience in the field of software development. Seeking to leverage my coding and analytical skills in the domain of full stack development and data science.

EDUCATION

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

SKILLS

- **Proficient in:** Python, JavaScript, C, Data Structures, System Design || Familiar With: C++, Java, Cuda, ML, Mathematica, RPA. || **ML Libraries**: Scikit-learn, Pandas, Numpy, keras, TensorFlow, Scipy.
- **Back End**: NodeJS, Django, AWS Lambda, API Gateway, EC2, Spring Boot.
- **Front End:** React Native**,** Vue JS, Html5, CSS, Bootstrap 4, JS, JQuery.
- **Containerization:** Docker, Kubernetes || **Repository Control**: Git, GitHub, Bash, Gitlab, JIRA.
- **Databases:** Oracle, DynamoDB, MongoDB, MySQL, PostgreSQL.
- **Soft Skills:** Initiative, Leadership, Resourcefulness, Communication, Public Speaking.

RSEARCH JOURNAL & PUBLICATION

Detection of Glaucoma Using Fundus Images of Retina	**Jan 2020 - July 2020**

- Worked as a lead in Developing and Publishing the research Paper in International Journal of Dogo Rangsang Research Journal. ISSN: 2347-7180.
- Presented a computational tool for automatic glaucoma detection. Developed and reported improvements for disc segmentation, and a **Deep Learning** – **Neural Network Box** method to classify the disease.

WORK AND LEADERSHIP EXPERIENCE

Fraunhofer USA CMA (Center for Experimental Software Engineering)	**College Park, Maryland**
Junior Research Scientist	October 2021 – Present

- Work on data visualization and machine learning models for predictive modelling/ analysis systems.
- Developed algorithm to identify dynamic patterns detects in data 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 a abnormal activity is detected.

Accenture Solutions PVT LTD	**Bengaluru, India**
Application Developer (Full-Stack Development)	June 2020 – July 2021

- Technologies worked on: Oracle - ADF, SOA, BPM / Java & JVM Languages / REST SOAP Web Services.
- Built & maintained various flows in a Banking System (Core Banking Transformation).
- 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 Implemented Restful APIs using Node.JS, Connecting to Oracle Databases.
- Fixed numerous bugs across the stack in Java Script, Business process Management. And created Spanner tables in order to optimize query times.

Electronics Corporation of India Limited (ECIL)	**Hyderabad, India**
Project Intern	May 2018 – July 2018

- Produced Prototypes of Digital Scientific Calculators to Real-Time Users, and developed improvements based on User feedback.

TECHNICAL PROJECTS

- **Home Automation System Using Internet of Things**: The user can operate all the modules that are included in automation process remotely & securely.
- **Knowledge Grab - Online Learning Management System:** Knowledge Grab is an Online Learning Management System that tend to allow users enroll for courses that they are interested in i.e Programming Languages etc, taking knowledge exams and also maybe get possible certifications for them. Any User can act as a Content creator as well as a Student.
- **Quantitative Momentum Screener, Quantitative Value Screener:** Established a universe of stocks to choose from, per an investor's market cap preferences. The algorithm also eliminates the riskiest stocks from the universe (based on insights from vast academic research). Build a strategy that uses one momentum metric. Then expanded the build to a more sophisticated strategy that uses multiple metrics together.