

# Mohit Rachuri

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**Website:** <https://mohitrachuri.com/>

## SUMMARY

Inquisitive, energetic upcoming Software Engineering graduate with 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**

Masters in Software Engineering

**College Park, Maryland**

August 2021 - Present

**SRM Institute of Science and Technology**

Bachelors of Technology in Electronics and Communication Engineering

**Chennai, India**

June 2016 – July 2020

## SKILLS

- **Proficient in:** Python, JavaScript, C, Data Structures, System Design || **Familiar With:** C++, C#, Java, RPA.
- **ML Libraries:** Scikit-learn, Pandas, Numpy, keras, TensorFlow.
- **Front End:** React JS, Vue JS, Html5, CSS, Bootstrap.
- **Back End:** NodeJS, Flask, Spring Boot.
- **Cloud Technologies:** Azure, AWS (EC2, lambda, API Gateway)
- **Containerization:** Docker, Kubernetes || **Repository Control:** Git, GitHub, Bash, Gitlab, JIRA, Azure.
- **Databases:** MySQL, PostgreSQL, Oracle DB, MongoDB, Firebase.
- **Soft Skills:** Initiative, Leadership, Resourcefulness, Communication, Public Speaking.

## WORK AND LEADERSHIP EXPERIENCE

**Maryland Transportation Institute**

*Web Developer*

**College Park, Maryland**

April 2022 – Present

- Maintained and refactored a web-based incentivized administration and transportation data analysis system as a full-stack engineer using React.js, Node.js, and Python.
- Designed and implemented a traffic simulation website using Material UI, Apex Charts, and Mapbox GL.
- Built an Authentication and Authorization Module for Users of the organization using Auth0.

**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 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 an abnormal activity is detected.
- Maintained and Refactored Fraunhofer USA CMA Web application using Adobe Experience Manager.

**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.

## RESEARCH JOURNAL & PUBLICATION

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### 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. Developed and reported improvements for disc segmentation, and a **Deep Learning – Neural Network Box** method to classify the disease.

## TECHNICAL PROJECTS

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- **Personal Portfolio:** Created my Portfolio website and hosted on Github Pages. Completely coded from scratch and completely responsive. **Website:** <https://mohitrachuri.com/>
- **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 like 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.  
**Tech Stack Used:** Angular JS, Django, My SQL, Amazon EC2.
- **Quantitative Momentum Screener, Quantitative Value Screener:** Designed an ML model that predicts changing stock price of a company based on its historical prices over a period of five years, given the respective news articles post-closing time of the previous day and other globalization factors. Employed Machine learning and Deep learning algorithms such as SVM, MLP to understand and predict the stock prices. Achieved ~ 80% accuracy.
- **Wireless Remote Controlled Bots (Line follower bot, Table top bot, Smart phone controlled bot):** These bots are fully capable of operating themselves by giving a certain path and can also be operated from smart devices.
- **Smart Mirror interfacing using Alexa:** The mirror can display the content that is asked by the user and act accordingly and used to perform tasks.