

# Uditraj Singh Rathore

College Park, MD 20740 | (240)936-3470 | uditrajsinghrathore50@gmail.com | GitHub Link: <https://github.com/uditraj1>

---

## EDUCATION

### University of Maryland

M.Eng of Software Engineering

- Current GPA : 3.9/4

College Park, MD

Expected May 2024

### SRM Institute of Science and Technology

B.Tech, Computer Science and Engineering

- Percentage : 84.66

Chennai, India

May 2020

## TECHNICAL SKILLS

**Programming:** C, C++, Java (Expert Proficiency), JavaScript, Microsoft SQL, PHP, HTML, CSS, jQuery, Python, React.js, Bootstrap, Arduino, Machine Learning, Linux, Sci-kit Learn, Test Driven Development, Junit, Mockito

**Tools/Frameworks:** Postman, Eclipse, Rally, Visual Studio Code, SharePoint, Github, Autosys, Filezilla, SonarQube, Jenkins, Excel, Source Tree, Angular, Google BigQuery, Google Cloud Platform (GCP)

## TECHNICAL EXPERIENCE

### Ford Motor Company (Full -Time)

Software Engineer

Chennai, India

May 2022 – August 2022

- Programmed for a team providing websites/applications used by car dealerships across different countries to improve business growth
- Improved the design and development of software to add new functionalities as desired by the business team and the end users using Java and Python for backend and JavaScript, HTML, CSS and Angular for front-end development
- Tested and debugged software to keep it optimized using Eclipse debugger and Liberty server and checking in local environments after deployment to ensure new changes to the website are flawless
- Attained knowledge of entire computer program/application flow from front-end to back-end to a database
- Used CI/CD tools such as Jenkins for building data transformation pipelines and code validation pipelines using Groovy scripts to process large amounts of data
- Provided ways to improve server and database performances to provide faster speed and reduced waiting time to give a more interactive software to end users

Junior Software Engineer

July 2020 – May 2022

- Wrote clean code for the front and back end of the software by using Postman and local server generation to test the new changes and reducing any future improvements to the code
- Worked on development, analysis, test cases and testing tasks providing knowledge across various stages of the software cycle
- Facilitated support to business when facing technical issues in the production environment to ensure that the business team's work does not get interrupted which may cause major problems
- Developed APIs and RESTful services to ensure smooth transitions in the program flow giving a great experience to the end users
- Programmed for the application using Java in backend, JavaScript/TypeScript in frontend with Angular framework and using Microsoft SQL for database

### Fraunhofer USA Center Mid-Atlantic (CMA)

Web Design and Development Intern

Riverdale, MD, USA

January 2023 - Current

- Using Adobe Experience Manager (AEM) to build and update the current company website and making design changes for it wherever required
- Pitching, improving and making design changes to the website to make it more user-friendly and interpretable
- Update and edit the current website content and pages
- Test the current company website for defects and fixing them to avoid customers facing the issues themselves
- Create prototypes and do experiments to create new features and to use new technologies to improve the overall website experience of end users

### Vinfotech (Internship)

Web Development

Indore, India

June 2017 – June 2017

- Performed or directed website updates to improve the webpage from a customer's perspective and also the get a better performance
- Created responsive websites that are compatible with any type of device so that customers can easily use any electronic device to view the website
- Removed bugs and tested changes in Inspect Mode to find errors and issues in the code and removing them to improve efficiency of the website
- Wrote, designed, or edited webpage content, or direct others producing content to get the desired webpage look that fits the company's needs

## **COURSES AND CERTIFICATIONS**

Jquery Course : From Beginner To Advanced (Udemy)

Cloud Computing (NPTEL)

Microsoft SQL Course (Udemy)

C and C++ Course (Universal Informatics)

PHP Course (Coursera)

Ethical Hacking Workshop (Hacktrack)

React Getting Started (PluralSight)

5G and Edge Computing (PluralSight)

Emerging Trends on IT (Conducted by WebTek Labs Pvt. Ltd.)

Core Python (PluralSight)

Java Tutorial Course (Sololearn)

Building Machine Learning Models (PluralSight)

Isensobots Workshop 2nd Position (Conducted by IIT Bombay)

Javascript – Asynchronous Programming and Promises (PluralSight)

Exploring and Preparing your Data with BigQuery (PluralSight)

BigQuery Datasets and Visualizing Insights (PluralSight)

## **TECHNICAL TOPICS STUDIED**

Software Engineering Principles

Data Structures

Computer Networks

Object Oriented Programming Using C++

Professional Ethics and Software Economics

Operating Systems

Distributed Computing

Data Science and Big Data Analytics

Hacking of C programs and Unix Binaries

Algorithm Design and Analysis

Microprocessors and Microcontrollers

Programming in Java

Object Oriented Analysis and Design

Network Security

Compiler Design

Data Mining and Analytics

Web Programming

AI-Based Software Systems

Database Management Systems

Employability Skills

Computer System Architecture

Multimedia Tools and Applications

Programming in PHP

Artificial Intelligence

Linux Internals

Theory of Computation

Software Engineering

## **PROJECTS**

Railway Obstruction Detection System Using IOT and Arduino – Created a project that would provide automatic obstruction detection in trains to prevent fatal accidents on the railway track. It made use of UV sensors (Distance calculation and detection), MEMs sensors (Checking for vibrations or faults in railway track) and an eye-blink sensor (Wake a driver if he/she fell asleep while driving the train)

ATM System Using Java – Using core Java scripts to create an ATM System that can show your balance, deposit money to your account, withdraw money from your account and update the new balance

Hotel Management System Using C++ - A project based on C++ code that provides hotel guests check-in, check-out, guest details, amount to be paid and some more features

