

# Maheep Mahat

540-557-8604 | [maheepmahat1@gmail.com](mailto:maheepmahat1@gmail.com) | [Linkedin](#) | [Portfolio](#) | Blacksburg, VA

## Summary

Full Stack Engineer with over 3 years of experience in Microservices, Django, Spring Boot, Typescript, React, and Angular. Skilled in developing responsive UI with scalable backend systems and improving operational efficiency. Passionate about solving problems through collaboration and innovation.

## Technical Skills

**Languages:** Python, Java, JavaScript, TypeScript, Golang, C, C++, SQL, HTML5, CSS3

**Frameworks & Libraries:** Django, Spring MVC, Spring Boot, React, Angular, Node.js, D3.js, Express.js, Pandas

**Databases & Tools:** PostgreSQL, MongoDB, MySQL, JDBC, Hibernate, Figma

**CI/CD:** AWS, Azure, Kubernetes, Jenkins, Docker, Git

## Experience

### Software Developer, Full Stack

01/2022 – Present

#### CGIT at Virginia Tech

- Developed a high-efficiency search and indexing using Elasticsearch for a permission sensitive information dashboard, reducing data retrieval times by 4 seconds through optimizing PostgreSQL queries and Django's ORM.
- Created a speeding and accident location information visualization app using geoserver generated layers for Virginia State Police utilizing Django, React.js, and Leaflet, resulting in faster information lookup time by 15 seconds.
- Doubled data ingestion speed for Urban Affairs and Planning department's bicycle experiment, reducing from 6 to 3 hours using pruning, partitioning, and Tuplex, improving workflow efficiency.
- Developed a geospatial information visualization platform using Django and React by fetching the inrix traffic data and generating layers using geoserver on top of Openlayers map and displaying locations using Fabric IDs .

### Associate Software Engineer, Full Stack

07/2020 – 08/2021

#### Mediaocean Inc.

- Designed and improved APIs in Mediaocean's Prisma platform, enhancing developer productivity. Implemented logging and monitoring solutions, ensuring better reliability in distributed microservice architecture.
- Implemented a 2-step authentication via Email or Text OTP on Mediaocean's Prisma and Radia platform, slashing the document verification process by 20%, leading to expedited document approval time for clients.
- Employed cache optimization and indexing on Mediaocean's Prisma platform, significantly enhancing PDF document processing efficiency and expediting final document generation by 15%.
- Spearheaded Server and UI development for Prisma and Radia using Java 9, Spring Boot, and React.js, boosting client engagement and satisfaction and regularly conducting Root Cause Analysis to enhance product reliability.

### Software Engineer Intern

05/2019 – 08/2019

#### Siemens PLM

- Refactored multiple subroutines in Polarion by employing algorithmic optimizations and reducing redundant operations, resulting in a 2 second improvement in loading of complex workflow diagrams.
- Implemented a logging tool for a Mendix application to provide real-time performance monitoring enabling the identification and analysis of system bottlenecks, which significantly aided in proactive troubleshooting.
- Developed a self-generating connector prototype for in-house microservices using the Mendix which enabled performing CRUD operations on all the microservices in the Siemens local network.

## Education

### Virginia Tech

Blacksburg, VA

#### MS in Computer Science

2022 - Present

### Vishwakarma Institute of Technology

Pune, India

#### B Tech. in Computer Engineering

2016 - 2020

## Recent Achievements

- Awarded full scholarship of \$113,000 (including monthly stipend) for graduate program at Virginia Tech.
- Honored with the Mediaocean Rising Star award recognizing outstanding performance and contributions.

## Recent Project

**Emotion in Motion:** The first platform to visualize the largest psychophysiological dataset by using Coordinated Multiple Views to do temporal pattern analysis using Hidden Markov Model and Dynamic Time Warping.