

Maheep Mahat

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Skills

Languages: Python, Java, C#, JavaScript, TypeScript, SQL, GraphQL, PHP, HTML, CSS

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

Databases & Tools: PostgreSQL, MongoDB, Snowflake, MySQL, JDBC, Kafka, RabbitMQ, Kibana, 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 & 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**.
- Increased data ingestion speed for Urban Affairs and Planning department's bicycle experiment, reducing from **6 hours to 4 hours 45 minutes** using pruning, partitioning, and Tuplex, improving workflow efficiency.
- Designed 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.

- Implemented hot reloading functionality using Webpack and React Hot Loader in the development environment, reducing the iteration time by **20%** and accelerating the feature development cycle by allowing instant feedback.
- Designed and improved APIs on Mediaocean's Prisma platform using Spring Boot, achieving a **15%** improvement in customer data fetching and rendering speeds by integrating Spring Data JPA for efficient data management.
- Implemented a 2-step authentication via Email or Text OTP on Mediaocean's Prisma and Radia platform, slashing the document verification process by **25%**, leading to expedited document approval time for clients.
- Created logging functionality across a distributed microservice architecture using the Elasticsearch, Logstash and Kibana stack and monitoring ability using Prometheus resulting is **30% faster** issue diagnosis time .
- 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.
- Coded a logging tool for a Mendix application to provide real-time performance monitoring enabling the identification and analysis of system bottlenecks, improving troubleshooting by **up to 100%**.
- 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 Publications with links

- Deciphering Emotional Responses to Music: A Fusion of Psychophysiological Data Analysis and LSTM Modeling
- Detecting Cyberbullying across multiple social media platforms using Deep Learning

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.