

SAJJAD MAZHAR

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Full Stack Software Developer with 2 years of experience in **R&D**. Proficient in **MERN** and **MEAN** stacks. Skilled in end-to-end development, debugging, deployments, and cloud services. Proven track record of delivering high-quality solutions in collaborative environments.

EXPERIENCE

Phicode Pvt. Ltd.

Aug 2022 – Present

Software Development Engineer

Bengaluru, Karnataka

- Developed a comprehensive platform for monitoring coal mining sites by capturing 3D images using drones. Utilized **React.js** as frontend and **Node.js Express framework** as backend to handle data processing and user requests seamlessly. **MongoDB** and **Google cloud storage** for storing and managing data efficiently.
- Integrated **Python microservices** for **geospatial** data processing using **GDAL** library, enhancing the platform's capabilities for analyzing mining area images.
- Implemented functionality to **overlay** mining sites' images from different dates onto Google Maps using **Google Maps APIs**, providing users with a visual representation of mining sites change over time. Created tools within the platform to measure **distance, area, and volume** of mining sites
- Developed a workflow to convert **TIFF** files into **PNG tiles** using **Python GDAL**.
- Integrated **PNG tiles** with **Google Maps API** for dynamic display based on zoom levels.
- Developed a **Telecom Tower management application** using **Angular** and **Express.js** enabling users to input drone-captured data, including 3D models, images. handled data flow through **AWS S3** and **MognoDB**
- Created a measuring tool with **three.js** to calculate length and area of 3D models, seamlessly integrating it into the application. Managed data transfer across **AWS S3** buckets of multiple accounts.
- Contributed to a **Warehouse Monitoring System** and collaboratively developed frontend tools for segmenting and studying a **3D point cloud** structure in **React application** and backend in **Python Flask**.
- Worked on **Docker, AWS ECR, and ECS** for application dockerization and deployment on **AWS ECS**.

NavGurukul

Nov 2021 – July 2022



Student Mentor

Dharamshala, Himachal Pradesh

- Acquired expertise in web development through formal education, subsequently imparting knowledge to over 100 students in the same domain as an instructor within an NGO setting.



PERSONAL PROJECTS

Nexus.point | **React.js, Express.js, Node.js, MongoDB Atlas**

 [Go to Project](#) –  [View Demo](#)

- Spearheaded the development of a feature-rich social media app, encompassing friend-making, post creation, reactions, and real-time chat functionality, with a focus on creating engaging and user-friendly interfaces.

Portfolio | **React.js, Three.js, Vite, Mail.js, Tailwind**

 [Go to Project](#) –  [View Demo](#)

- Developed a personal portfolio website utilizing React.js, Three.js, Vite, Mail.js, and Tailwind, showcasing proficiency in front-end technologies and creative design implementation.

TECHNICAL SKILLS

Languages: JavaScript/ES6, TypeScript, Python(numpy, pandas, matplotlib, scikit-learn)

Technologies: React/Redux, Angular, Flask, Express.js, Scikit-learn, Bootstrap, RestAPI, Node.js, Electron.js,

Docker/Docker-compose, Machine-learning, Prisma/Prisma-Client, Mongoose, Sequelize, Git, GitHub

Cloud Services: AWS(S3, Lightsail, EC2, ECS, ECR), Firebase(Realtime database, Storage, Hosting, Google Analytics)

CERTIFICATIONS

Full Stack Development Bootcamp (DevsNest) – [View](#)

JavaScript Algorithm and Data Structures freecodecamp– [View](#)

Youth Empowerment AI Hackathon: KPMG, enactus, Microsoft– [View](#)