

Contact: +91 8910256115
Email: prayaspal777@gmail.com
Bengaluru, India

PRAYAS PAL

LinkedIn: Prayas Pal
GitHub: d-rorschach
CodeChef: prayaspal
CodeForce: prayaspal

EXPERIENCE

Software Development Engineer	Amazon	August 2021-Present
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- Worked on development of retail music project which is a **Java-Spring** and **Node.js** based backend and **React.js** based frontend platform, which provides music streaming and purchase experience. Developed **language translation feature** to support various languages in retail music platform on a global basis. Also contributed on multiple payment process related improvements for business requirements.
- Enhanced **Search Engine Optimisation**, created SEO bot tags, **sitemaps** which improves visibility in search results significantly.
- Migrated non-AWS based Purchase service to **AWS**, **re-architected** the service using **AWS resources**, created **High Level Design** and **Low level Design**, took major decisions on service infrastructure, service communications, traffic migration strategy on production level, which **reduced the service cost by 35%**.
- Designed and implemented business logic to handle some fraudulent use cases, which **reduces losses** directly.

Research Intern	National Institute of Technology, Durgapur	May 2020-February 2021
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Medical diagnosis tool using **Machine Learning**

- Developed machine learning based diabetic retinopathy diagnosis system that can detect lesions from a scanned eye image, using the YOLO Algorithm and Tensorflow Deep Learning framework.

Personal Project	Green Map	February 2021
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Project link: <https://github.com/d-rorschach/Green-Map>

- Developed a map-based **Web Application** using Django Framework and Mapbox, Air quality API, and created a visualization based on the air quality of users' current location.
- It can show users the path of traveling and can calculate the generated carbon footprint and the cost to offset the carbon emission.

Personal Project	Watch Together	March 2021
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Project link: https://github.com/d-rorschach/Watch_Together

- Developed a **Web Application** using Nodejs where users can create and invite their friends to join a room to watch videos together via synchronized video player. This room also facilitates chat and calling features.
- The chat and synchronized video player was made by websocket protocol and the audio and video calling feature was built using webrtc protocol.

EDUCATION (UNDERGRADUATE)

B.Tech	National Institute of Technology, Durgapur	July 2017-June 2021
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- CGPA: 8.85/10.00

LANGUAGES AND TECHNOLOGIES

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- Languages: C, C++, Java, Python, HTML, CSS, JavaScript, Node.js
 - Frameworks: Spring Boot, Django, Express.js
 - Databases: MySQL, SQLite3, MongoDB, DynamoDB
 - Technologies: Git, AWS services, System design

ACHIEVEMENT

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- Secured 177th rank in Codeforces global contest among 10,000+ participants.