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Work Experience

Juspay

PRODUCT ENGINEER

Bangalore

June 2023 - Current

- Engineered a location tracking service in Rust, achieving a 30% reduction in API latency and enhancing overall performance.
- Developed a session metrics library to trigger events to Kafka, facilitating A/B testing of applications and enhancing analytics capabilities and reducing system downtime by 15%.
- Conducted API profiling to identify bottlenecks causing high latency, optimizing performance through cached queries and database indexing, resulting in a 25% decrease in API response time.
- Deployed Pelias within Kubernetes, delivering a cost reduction of 40% compared to Google Maps, providing a robust open-source alternative.

Juspay

PRODUCT ENGINEER INTERN

January 2023 - June 2023 • Worked on the development of the SOS feature, including the implementation

of contact fetching and storage functionalities for emergency scenarios.

- Increased active drivers by 30% through the implementation of a driver location health check service utilizing Redis and Kafka.

Rocketium

SOFTWARE ENGINEER INTERN

Remote

May 2022- July 2022

- Collaborated on redesigning Rocketium's design editor, constructed with React.js and Typescript, to optimize user experience and usability.
- Transformed designs and wireframes into a seamlessly responsive user interface.
- Introduced new components that not only improved the editor's functionality but also drove an increase in website traffic.

Projects

Bits-Of-Code

Next.js,
Redux

Node.js,

COLLECTION OF BLOGS FOR DEVELOPERS

- Crafted a single-page application with Next.js and Node.js to facilitate the sharing of development blogs.
- Implemented static site generation for accelerated load times and increased efficiency.
- Leveraged Firebase for user authentication and data storage, alongside SWR for efficient data fetching.

Chatify

REALTIME CHAT APPLICATION

React.js, Firebase

- Developed a personalized chat room similar to Discord, facilitating resource sharing and engaging in lively conversations with friends employing React.js and Firebase technologies.

Technical Skills

Strongest Areas

Data Structures, Algorithms

Programming Languages

C/C++, Javascript, Haskell, Rust, Python

Libraries/Frameworks

React.js, Express.js, Next.js, Typescript, Webpack, Git, Node.js, Redis, Kafka, Kubernetes, Docker, HTML5, CSS3

Database

MongoDB, Firebase, PostgreSQL

Platforms

AWS, Vercel, Heroku

Education

University of Cape Town

IMSC IN MATHEMATICS AND COMPUTING

Cape Town,

June. 2018 - May. 2023

- 8.04/10

Publications

An overlapping sliding window and combined features based emotion recognition system for EEG signals
Shruti Garg, Soumyajit Behera, Rahul Kumar Patro, Neha Prerna Tigga *Applied Computing and Informatics*
(2021)