Aditya Nair

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EDUCATION

University of Illinois, Chicago Chicago, IL
Masters of Science in Computer Science Aug. 2021 – May 2023

University of Mumbai Mumbai, India
Bachelors of Engineering in Computer Engineering Aug. 2015 – May 2019

EXPERIENCE

Software Engineer - Full Stack Aug. 2023 – Present
Rebecca Everlene Trust Company Oakland, CA

- Achieved a **30%** reduction in redundant lines of code for new front-end features by creating reusable functional components with React.js.
- Optimized front-end performance on eCommerce platform by building an Express.js middleware to interact with MongoDB Atlas, synchronizing data fetching and preventing mistimed displays.

Research Software Engineer Aug. 2022 – May 2023
University of Illinois, Discovery Partners Institute Chicago, IL

- Engineered a Docker container for seamless deployment of COVID-19 time-series analysis models with specific SIR Epidemic Model versions, decreasing deployment time by **15%**.

Software Engineer - Full Stack Jun. 2019 – Jul. 2021
Agnostech Innovations Mumbai, India

- **PiXL** :Automated grade requirement calculation for **400,000** student records, using Node.js, GraphQL, and PostgreSQL Triggers, reducing **1000+** hours of manual work.
- **XBSL**: Enhanced the native Flutter video player to enable video playlists and timestamp-based quizzes, serving professionals from **100** companies.
- **MSA**: Built a feature-rich and responsive form with GraphQL subscriptions over WebSockets to streamline claim filing process for **13,000** MSA Reclamation delegates.

PROJECTS

Log File Processor | Scala, EMR, EC2, S3, gRPC, Hadoop Oct. 2022 – Nov. 2022

- Developed a distributed system using Apache Hadoop(Scala) and AWS Elastic Map Reduce(EMR) to efficiently process and analyze large log files.
- Built a gRPC client to enable searching of logs by timestamps in **O(log n)** time using AWS lambda and REST API.

RPC Banking System | Golang, SSH Oct. 2022 – Nov. 2022

- Developed and deployed a Banking System, integrated with RPC functions on a custom operating system using Golang

Pacando | Flutter, Node.js, Apollo, Heroku, GraphQL Feb. 2021 – Jun. 2021

- Programmed a Fantasy Football point system, processing **300+** real-time in-game events with Node.js, Hasura Event Triggers, and Heroku serverless functions.

TECHNICAL SKILLS

Languages: TypeScript, Python, Java, HTML/CSS, SQL, Dart
Frameworks: Next.js, React, Node.js, Express, Flutter
Tools & Platforms: Postgres, MySQL, NoSQL, MongoDB, GraphQL, AWS, GCP, Docker, GitHub, Jira, Git