

Aditya Nair

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EDUCATION

University of Illinois, Chicago

Masters of Science in Computer Science

Chicago, IL

Aug. 2021 – May 2023

University of Mumbai

Bachelors of Engineering in Computer Engineering

Mumbai, India

Aug. 2015 – May 2019

EXPERIENCE

Web Developer

Rebecca Everlene Trust Company

Aug. 2023 – Present

Oakland, CA

- Developed and maintained the MEDKids platform, utilizing HTML, CSS, and JavaScript, to deliver interactive educational content focused on the medical field for children.
- Reduced development time for new features by 30% by building re-usable functional components using React.js.
- Improved visual stability by utilizing Next.js Image component to reduce cumulative layout shift.

Graduate Research Assistant

University of Illinois, Discovery Partners Institute

Aug. 2022 – May 2023

Chicago, IL

- Conducted in-depth time-series analysis and trend detection using pandas, SIR Epidemic Models (covsirphy) and matplotlib to assess COVID-19 impact on 3000+ US counties.
- 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%.

Fullstack Developer

Agnostech Innovations

Jun. 2019 – Jul. 2021

Mumbai, India

- **PiXL**: Automated subject-specific 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 for video playlists and timestamp-based quizzes, serving professionals from 100+ companies.
- **MSA**: Streamlined the claim filing process for 13,000+ MSA Reclamation delegates by creating a feature-rich and responsive form with GraphQL subscriptions over WebSockets.

PROJECTS

Distributed Log File Processor | Scala, EMR, EC2, S3, gRPC, Hadoop

Oct. 2022 – Nov. 2022

- Developed a high-performance parallel distributed system using Apache Hadoop(Scala) and AWS Elastic Map Reduce(EMR) to efficiently process and analyze large log files.
- Developed a gRPC client enabling log file search in $O(\log n)$ time using AWS lambda and REST API.

Pacando | Node.js, Apollo, Heroku, GraphQL, Flutter

Feb. 2021 – Jun. 2021

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

Companion | Android, XML, Gradle, MongoDB

Jun. 2016 – Jun. 2019

- Led redesign of college portal, streamlining courses ,attendance and travel concessions management for faculty and 2000+ students via a mobile app.

TECHNICAL SKILLS

Languages: Python, TypeScript, HTML/CSS, SQL, Java, Dart

Frameworks: React, Node.js, Flutter, Express

Tools & Platforms: Postgres, MySQL, AWS, GitHub, Jira, Git, Docker