# Rahul Anand Nayanegali

New York, NY | nayanegali.rahul@gmail.com | 551-399-9002 | linkedin.com/in/rahulnayanegali | github.com/rahulnayanegali

## EDUCATION

**Pace University, Seidenberg School of Computer Science and Information Systems**   New York, NY
Master of Science in Computer Science | **GPA**: 4.0 | **Concentration**: Full Stack, Cloud Services, and Deep Learning   May 2024

## TECHNICAL SKILLS / CERTIFICATIONS

**Web Development:** React, Next.js, TypeScript, JavaScript ES6+, HTML, CSS, Ant Design, Material UI, Chakra UI
**Programming Languages / Database Management:** Java, Python, My SQL, Postgre SQL, MongoDB
**Version Control / Project Management:** Git, GitHub, GitLab, JIRA, Slack, Docker, Agile, Scrum
**Testing:** Jest, Enzyme, React Testing
**Certifications**: **AWS Certified Cloud Practitioner** March 2022, **Master JavaScript** – LinkedIn Learning Oct 2023

## EXPERIENCE

**Pace University**   New York, NY
*Teaching Assistantships (TA)*   October 2023 – Present
- Developed engaging course materials for Data Structures and Algorithms, utilizing visualization tools and practical examples to simplify complex concepts for 80+ students, resulting in a 25% increase in average exam scores.

**Aquila Test**   Remote
*Frontend Engineer*, XPath Chrome Extension Product: **React, Chrome APIs, Node.js, AWS**   July 2023 – Present
- Developed and a React-based Chrome extension for optimized xpath generation using a DOM traversal algorithm, enhancing web development efficiency.
- Utilized Chrome APIs for robust state management and cross-tab communication, ensuring seamless user experience and data synchronization.
- Designed an intuitive interface for xpath capturing and configured the development environment with Webpack and Babel for code efficiency.
- Implementing **code splitting**, **tree shaking**, and **minification** techniques to reduce bundle size by 30% and improve loading performance.
- Engineered and deployed an **Express Node.js API** on **AWS EC2** for parsing and generating xpaths, achieving an 80% reduction in manual effort.

**CodeCraft Technologies**   Bangalore, India
*Engineer, Web Development*: **React, Next.js, Redux, SASS, GraphQL, Server-side rendering**   February 2021 – January 2023
- Developed a **reusable**, accessible UI components for JioCinema, a high traffic streaming platform, using **TypeScript**, Redux and Next.js resulting in 50% reduction in development time.
- Implemented **SSR**, **lazy loading** and **code splitting** to optimize performance and experience for millions of concurrent users.
- Collaborated with **cross-functional** teams to ensure seamless integration of components and scalability of the application.
- Conducted regular **code reviews**, provided guidance on architecture decisions, and facilitated knowledge sharing sessions, resulting in a 25% improvement in code efficiency and significantly enhanced maintainability.
- Mentored team members on React performance **optimization**, **component reusability**, and **state management**, empowering them to deliver high-quality code and contribute to the project's success.
- Utilized Enzyme's shallow rendering and snapshot testing to verify component behavior and prevent regressions.
- Integrated tests into the CI/CD pipeline, automating the testing process and catching potential issues early.

**Tata Consultancy Services**   Bangalore, India
*Assistant Software Engineer:* **React, SASS, AWS, Kafka**   November 2018 – May 2020
- Developed a real-time dashboard and geospatial tracking system using React JS and SCSS, integrating with Flask API and leveraging AWS (DynamoDB, Lambda) for a scalable serverless architecture, and Kafka for dynamic data streaming.
- Promoted development best practices by implementing the Airbnb JavaScript style guide and deployment through Docker.

## ACADEMIC PROJECTS

**MedXrayAI: Python, TensorFlow, Pandas, NumPy, React, Flask, AWS, CNN, PyTorch.**   July 2023 – Present
- Developed a deep learning model using PyTorch and the ChexPert dataset to achieve 89% accuracy in X-ray image classification. Created a React dashboard for image uploads and integrated it with a Flask backend for image processing.