

Neh Joshi

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Experienced **Front End Engineer** specializing in **React**, **Redux** and **Javascript** with a focus on **accessibility** and **performance**. Active **open-source** contributor, and experienced in setting up **cloud infrastructure** and **high-level designs**. **Autonomous** and **self-driven** individual able to solve issues with minimum supervision.

Experience

Software Engineer - Front End

June 2024 – Present

BoomerRoomers LLC

Westport, CT, USA

- Implemented a preference-based matching algorithm with **Node.JS** and **Typescript**, expanding the user base by **30%**
- Revamped UI with **React.js** and **Material-UI**, optimizing for performance, **SEO**, and accessibility using **Test-Driven Development (TDD)**
- Architected a migration strategy with **AWS Elastic Beanstalk** to transition a revised **MongoDB** schema
- Developed a comprehensive test suite with **Jest** and **Cypress** for unit and e2e tests achieving 86% code coverage

Development Team Lead

Aug 2020 – July 2022

OWASP (University Chapter)

Remote

- Contributed to several **open-source** tools for cybersecurity and AI while working in a **remote** environment
- Coordinated **5+ developers** to organize a nationwide cybersecurity hackathon, resulting in 200+ participants
- Crafted an organization-centric recruitment application using **Angular** and **Google Firebase** with a **CI/CD** pipeline, on-boarding 70+ candidates

Software Engineer Intern

June 2021 – Jan 2022

Samsung R&D Institute

Remote

- Developed a **computer vision** app for high-quality video annotation using **Python Flask**, **TensorFlow**, and **React**, improving dataset creation workflows
- Deployed a **Python** ML model via Flask and integrated it with a **Node.js** backend to serve real-time predictions with async handling and **input validation**

Projects

Job Application Tracker | *TypeScript, React.JS, PostgreSQL, Spring Boot, Maven*

Mar 2024 – June 2024

- Developed a job application status tracker used to manage and track **1000+** job applications for over 5 users
- Established a robust **cloud infrastructure** with **AWS S3** for efficient media storage, RDS for scalable database management, EC2 for **server deployment** and API Gateway for proxy management
- Implemented a **CI/CD** pipeline integrating **Docker** on EC2 with **GitHub Actions**, automating JUnit and Mockito tests before deployment

The Mirror Test | *Next.JS, MongoDB, Node.JS, OAuth*

Sep 2023 – Dec 2023

- Developed an interactive web app that provides mental health insights based on scientifically researched questionnaires, leveraging **Next.js** and **MongoDB**
- Utilized **TypeScript** for building scalable and improving code maintainability and reducing runtime errors
- Implemented an **AI-powered** chat system to consistently provide detailed mental health explanations based on questionnaire results

Education

University of Virginia

Charlottesville, VA, USA

Master of Computer Science (MCS)

Aug 2023 – Dec 2024

GPA: 3.91/4.0

Vellore Institute of Technology

Chennai, Tamil Nadu, India

Bachelor of Technology, Electronics and Communication Engineering

Aug 2019 – May 2023

Technical Skills

Frontend: React, Next.js, Angular, Material-UI, Redux, HTML, CSS, JavaScript, TypeScript, Tailwind, Bootstrap

Backend: Python, Flask, Node.js, Express, Java, MongoDB, PostgreSQL, Spring Boot

Miscellaneous: AWS (S3, EC2, RDS, Lambda), Webpack, Jest, Cypress, Docker, Git, Linux, Webpack