Dhruv Parthasarathy

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Education		
Luucation		

Northeastern University, Boston, MA

Master of Science in Software Engineering Systems (GPA 3.8 / 4.0)

Expected August 2024

Object Oriented Design, Algorithms, Cloud Computing (AWS), Web Design and User Experience, Big Data Applications and Indexing

SSN College of Engineering, Tamil Nadu, India

Bachelors in Mechanical Engineering (GPA 8.2 / 10)

Finite Element Analysis, Fluid Dynamics, Strength of Materials, 3D Modeling and Simulation

Technical Skills __

Languages and Databases: JavaScript, TypeScript, HTML, CSS, Java, Bash Scripting, MongoDB, MySQL, Redis Frameworks: ThreeJS, D3, Kafka, Socket.io, NextJS, React, Redux, Angular, Node.JS, TypeORM, Flask, Jest, Express Build Technologies: Git/Gitlab CI-CD, Docker, Webpack

Professional Experience

Running Tide – Verification Software, Portland, ME

Full Stack Developer – Co-op

May 2023 – December 2023

- Spearheaded the development of a React reusable component library, yielding a 20% reduction in development time across projects within a monorepo, while also enhancing code reusability and maintainability
- Implemented test-driven development (TDD) practices for backend services, achieving a notable milestone of 100% test coverage. This resulted in a 15% decrease in post-deployment issues and an overall improvement in system reliability.
- Developed a reporting engine framework using NodeJS, PhantomJS and Handlebars libraries to automate report generation, reducing time by over 99%, from 5 hours to less than 1 minute
- Successfully migrated the front-end of the application from ReactJS to NextJS, React Query and TypeScript, resulting in a reduction in development and deployment time by 30%, while achieving enhanced performance and maintainability
- Created a map-based device tracking visualization using MapboxJS, to aid with real-time monitoring and geospatial analysis of IoT devices deployed in the ocean

Mu Sigma - Innovation & Development Labs, Bengaluru, India

Full Stack Software Developer

August 2019 - August 2022

- Led a 4-member team to deliver a Java based desktop tool (muFlow) to create and execute analytical workflows
- Spearheaded org-wide training for 100+ team leads to increase muFlow's adoption and usage across departments by 20%
- Developed a React-based CPG product launch simulation app called Real Games, supplying valuable consumer insights to stakeholders through interactive maps (Mapbox API) and visual representation
- Led the design and development of the Front-end of a real-time pair trading Angular web application
- Reduced execution bottlenecks: CPU Usage by 10%, Memory Footprint by 62% and App Load Time by 23%
- Implemented D3 and Three.is based components to the app, enhancing its functionality and user experience, resulting in 10% increase in user interaction rate

Leadership and Community Involvement_____

Mentor – Oasis, Northeastern University

September 2022 – Present

- Worked with 50+ undergraduate students to build software applications, develop their technical and networking skills through workshops, events, and industry connections
- Guide and support in software development best practices, project management, and team collaboration

Speaker – Northeastern University

Conducted workshops on Front End Development at Northeastern University to help students gain practical knowledge and hands-on experience with the latest tools and techniques in the field