

Dhruv Parthasarathy

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Education

Northeastern University, Boston, MA

Master of Science in Software Engineering Systems

Expected August 2024

Object Oriented Design, Web Design and User Experience, Data Structures and Algorithms, Computing Infrastructure (AWS)

Technical Skills

Languages and Databases: JavaScript, TypeScript, HTML, CSS, Python, Java, Bash Scripting, MongoDB, MySQL, Redis

Frameworks: NextJS, React, Redux, Angular, Node.JS, TypeORM, React Query, Flask, Jest, Express, D3, Kafka, Socket.io

Build Technologies: Git/Gitlab CI-CD, Docker, Webpack

Cloud Technologies: AWS EC2, EFS, EBS, Linux Server Management

Professional Experience

Running Tide – Verification Software, Portland, ME

Full Stack Developer – Co-op

May 2023 – December 2023

- 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

Northeastern University – Combine Lab, Boston, MA.

Full Stack Software Developer

September 2022 – May 2023

- Developed 3 Python – Flask based web applications with accessibility features and responsive User Interface, which resulted in a **5% increase in user interaction rate** - monaminkara.com, minkaracombinelab.com, planestrainsandcanes.com
- Migrated the websites to GCP with up-to-date security patches, **reducing downtime to 0.3%**
- Developed CI/CD pipelines to automate version updates resulting in **70% reduction in time to deploy code**

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.js** 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
- Provide guidance 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