Tom Clark

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EXPERIENCE

Tripadvisor • Needham, MA

SOFTWARE ENGINEER, WEB PLATFORM (JAN 2022 - AUG 2023)

- Maintained and provided technical direction for a modern CI/CD pipeline, web monitoring tools, Node.js web server, and Docker images for development and production. Regularly conveyed key platform updates to engineering and product stakeholders through internal blog posts and other written communication.
- Implemented web performance wins utilizing server-side rendering, asset bundling, and lazy loading.
- Increased developer productivity by converting a 1M line codebase to TypeScript and performing major React and Node.js updates. Provided training and documentation for teams.

SOFTWARE ENGINEER, CORE EXPERIENCE (SEP 2019 - DEC 2021)

- Designed and implemented tools for curating travel recommendations on the Tripadvisor homepage React and GraphQL.
- Collaborated with designers to develop a design system, advocating for and implementing changes for web accessibility.

SOFTWARE ENGINEER, B2B (JUNE 2016 - SEP 2019)

- Grew the Tripadvisor For Business platform by developing reputation management dashboards for hoteliers and restaurateurs.
- Improved development velocity by integrating React, Redux, and Node.js into the legacy tech stack, which is now integral to the organization's web strategy.

Red Hat • Westford, MA

INTERN, CORE KERNEL GROUP (MAY 2015 - AUG 2015)

- Built an Internet of Things-focused Linux distribution configured for industrial and edge computing systems.
- Constructed a prototype hardware device to illustrate the potential of an Internet-of-Things cloud stack to internal stakeholders

WPI Robotics Lab • Worcester, MA

INTERN, ROBOTICS LAB (MAY 2014 - DEC 2014)

- Developed a C++/Java robotics library for embedded Linux, which was used nationwide by high school students participating in the FIRST Robotics Competition (FRC).
- Collaborated with mentors and partners to create educational material and documentation for robotics programming.

Open Source & Personal Projects

- **GRIP (Graphically Represented Image Processing)**, a visual programming tool for rapidly prototyping machine vision pipelines using Java and OpenCV.
- Built and deployed the web frontend for **Crowdfree** on AWS. The app presented anonymized crowd data to aid social distancing during the COVID-19 pandemic.
- **Elden Ring Calculator**, a responsive web application using React and TypeScript, as a personal project to sharpen skills in frontend and cloud technology.

EDUCATION

Worcester Polytechnic Institute • Worcester, MA

B.S. WITH HIGH DISTINCTION, COMPUTER SCIENCE (AUG 2013 - MAY 2016)

Dean's List (2013 - 2014), Computer Science Major Qualifying Project Award winner (2016)

TECHNICAL SKILLS

React, JavaScript, TypeScript, Python, C#, .NET, Docker, HTML, CSS/LESS/SASS, Node.js, Redux, GraphQL, CI/CD, SQL, Grafana, Java, Microservices, Git, Linux