Matthew Blanco

Software Engineer

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Programming Languages

JavaScript

TypeScript

Java

HTML

CSS

Python

Software

Git

React

Alluxio

Command-Line Interface

Adobe Design Suite

Paradigms

Functional Programming

Object-Oriented Programming

Awards

Eagle Scout

Max Thomas Explore the World Scholarship

Offered to Khoury College students who want the opportunity to participate in global experiential learning opportunities

Interests

Hiking

Travel

Programming Languages

Human-Computer Interaction

Typography

Film

Guitar

EDUCATION

Northeastern University, Boston, MA September 2019 - April 2024

Khoury College of Computer and Information Science

- Candidate for BS in Computer Science and Design
- GPA: 3.640/4.0
- Extracurriculars: NUHOC (Huskiers and Outing Club), Oasis Software Accelerator
- Relevant Coursework: Fundamentals of Software Engineering, Object-Oriented Design, Algorithms & Data, Discrete Structures, CS Fundamentals I/II, Fundamentals of Software EngineeringExperience & Interaction, Graphic Design I, Typography I/II

EXPERIENCE

Software Engineering Co-op — Visualization Group MIT CSAIL

Boston, MA January 2022 - July 2022

- Contributed to the project "Rich Screen Reader Experiences for Accessible Data Visualization" developing and releasing a novel interface to enable blind and visually impaired users to engage with data visualizations
- Worked to implement a production-ready version of the project to the Vega libraries
- Conducted user interviews to learn how visually impaired users interact with information and about current standards for screen reader navigation

Research Assistant Co-op — Khoury College of Computer Science and Information Science

Boston, MA January 2021 - July 2021

- Contributed to the development of an open-source dynamic taint analysis tool for the JavaScript programming language
- Added support to track program taint through JavaScript Promises and Async and Await operations through adding multiple function call stacks throughout the analysis and intercepting Promise events
- Supported in part by National Science Foundation REU Project # 2109395

Software Engineer Intern — Alluxio

San Mateo, CA July 2019 - August 2019

- Developed automatic documentation generation for CLI commands by scraping current documentation files in Markdown and modifying the format to better suite the command line.
- Used Docker simulate an Alluxio cluster in order to test and improve metric collection and dashboard layouts to better visualize the health of an Alluxio cluster.

PROJECTS

Atlas— VSCode Extension August 2020 - April 2020

- Project aims to create a way to visualize a project's codebase to show how various files and implementations interact with each other in order for better code comprehension.
- Created the code analysis using Java and utilized the JavaParser library to identify and serialize external file references into a JSON format
- Visualized the JSON data in a VSCode window using TypeScript and React splitting the infomration into seperate containters for future modularity and usages

Design Across Disciplines - HTML, CSS, JavaScript, D3 December 2021

- Compared how language around design differs between design and computer science academia
- Parsed various research papers analyzing the co-occurrencies around design terminology