

Robin Buchthal

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Skills and Interests

Skills: Full Stack Development, Agile Development Process, OOP, Problem Solving, Communication

Languages: Python (Intermediate), Java (Intermediate), HTML & CSS (Basic), Javascript (Basic), C (Basic)

Systems: Eclipse, VS Code, Linux, Git, React Query, Gitlab CI/CD

Side Projects: <https://github.com/rbuchthal25>

Image Classification AI Model: <https://github.com/EfrenHaskell/EMNISTclassifier.git>

- Collaborated with a team of four to develop a convolutional neural network using PyTorch for classifying and predicting handwritten character digits, trained on the EMNIST dataset
- Designed a neural network featuring two convolutional layers and two fully connected layers, achieving an average prediction accuracy of 86.6% over 10 epochs

Experience

SAIC, Remote

June 2024 - August 2024

Software Developer Intern

- Collaborated within an Agile team on the development of web portals, contributing to both frontend and backend improvements using JavaScript, Docker, and GitLab CI/CD, enhancing application performance and user experience
- Streamlined the CI/CD pipeline in the team's Unify project, enhancing deployment efficiency and reaching a reduction in build time by at least 5%
- Migrated the project's state management from React Redux to React Query, simplifying the overall registration architecture and optimizing the data fetching efficiency by at least 10-15%

Education

Brandeis University, Waltham, MA

Expected May 2025

Major in Computer Science, Minor in Pure Mathematics | GPA: 3.5 | Dean's List

Selected Coursework: Data Structures & Algorithms, Operating Systems, Fundamentals of Software Engineering, NLP

Leadership & Involvement

Brandeis University, Waltham, MA

September 2023 - August 2024

Multivariable Calculus and Calc I Grading TA

- Collaborated with the professor and fellow graders to help boost students in their understanding of course material and ensuring accuracy in their work methods
- Graded homework assignments and provided constructive feedback which increased students' understanding

Bit by Bit Coding | Brandeis University, Waltham, MA

September 2023 - April 2024

Web Developer & Digital Media Coordinator

- Created the club website using JS, CSS, and HTML with a team of other web developers, using Git for version control
- Coordinated club campaigns to maximize club participants as well as managed club's social media channels to drive engagement and awareness, increasing the attendance by 75%

Brandeis University, Waltham, MA

September 2023 - December 2023

Python Teaching Assistant and Grader

- Helped create grading criteria, provided curriculum feedback to the professor, and supported students in coding basics and Python fundamentals
- Held bi-weekly office hours, offering mentorship and guidance on course material leading to student's academic success