Dov Ushman

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EDUCATION

Worcester Polytechnic Institute (WPI) — Worcester, MA
Bachelor of Science in Computer Science, Minor in Financial Technology, May 2024 — GPA: 3.71
Honors: High Distinction

Relevant WPI Courses — Software Engineering; Webware; Intro to AI; Machine Learning; Algorithms; Object-Oriented Design; Operating Systems Concepts; Mobile and Ubiquitous Computing; System Programming Concepts; Database Systems

TECHNICAL SKILLS

Primary Languages — Java and Python
Experience with — React, JavaScript, HTML, CSS, SQL, C, C++, R, Kotlin, AWS, Git, GitHub, Figma, Jira

PROJECTS

7Factor AWS Analysis: Major Qualifying Project – Python and React   8/2023 – 5/2024
- Co-led a team of five to help 7Factor, a custom application company, to cut their AWS cloud spending via usage analysis.
- Built full-stack web tools to visualize and optimize cost-saving strategies for AWS infrastructure.
- Designed data-driven cost optimization tools aimed to reduce AWS cloud spending, identifying potential savings to ~10%.

Sharpify: Image-Enhancing Website – React, Node.js, Express, MongoDB and Firebase   3/2024 – 5/2024
- Served as the primary backend engineer, in a team of three, for Sharpify - a custom web-based image enhancement tool.
- Engineered backend with Deep Image AI API to enhance image quality through machine learning.
- Optimized performance and data retrieval for a seamless user experience, managing the data with Firebase and MongoDB.

Brigham and Women's Hospital Desktop Application – Java, JavaFX and PostgreSQL   3/2023 – 5/2023
- Assisted in leading a 10-person Agile team to develop a prototype desktop application for hospital employees.
- Coded an app with service requests, pathfinding, map-editing, and directional signage capabilities to enhance efficiency.
- Presented working prototype to hospital leadership to demonstrate operational improvements.

MOSE App: Interactive Qualifying Project – Adobe XD   8/2022 – 12/2022
- Worked with three students to design an interactive mock-up for the *Commissario Straordinario MOSE* (Venice, Italy).
- Created a prototype that simulates user interactions, displaying "real-time" updates on gate activation and tide levels.
- Delivered a dynamic mock-up, demonstrating the potential of the mobile app to enhance public safety and awareness.

PROFESSIONAL EXPERIENCES

TurboTune: Lead Software Engineer — Early Stage Startup, Remote   6/2025 – Present
- Lead software engineer for TurboTune, an AI-powered automotive image enhancement platform for auto dealers.
- Designed AWS infrastructure (S3, RDS) with secure presigned-URL workflows for image uploads.
- Integrated fal.ai image enhancement APIs into a scalable backend pipeline for processing user-uploaded photos.
- Built full-stack features using React, Node.js, Typescript for upload workflows, previews, usage tracking and galleries.

New Blue Interactive: Software Intern — Remote Internship   6/2022 – 8/2022 & 6/2023 – 8/2023
- Utilized Python to develop dashboards displaying live campaign funds raised and to track marketing performance.
- Created dynamic marketing emails using HTML, CSS, and JavaScript which were sent to 10,000+ recipients.
- Improved email targeting and engagement, contributing to ~12% increase in click through rate and ~15% in open rates.

Technical Computer Solutions: Intern— Holden, MA   6/2021 – 8/2021
- Executed hardware adjustments and software installations to ensure optimal performance and functionality of client systems.
- Enhanced client satisfaction through effective communication and timely delivery of fully operational setups.

EXTRACURRICULAR ACTIVITIES & AWARDS

Master/Assistant Carpenter for Theatre Productions — WPI, Worcester, MA   9/2022 – 5/2024
- Led a team in building sets, coordinating efforts between the construction and design teams to actualize the creative vision.

Member of National Theatre Honor Society, Alpha Psi Omega — WPI, Worcester, MA   4/2024
Presidential Scholarship — WPI Merit Scholarship   8/2020 – 5/2024