Sebastian Tremblay

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Boston, MA | Available: May 2024 - December 2024

EDUCATION

Northeastern University — Boston, MA

Candidate for B.S. in Computer Science, Minor in Mathematics — *September 2021 – December 2025*

Achievements: 3.98/4.00 GPA, Dean's List Award (×5), Dean's Scholarship

Coursework: Algorithms and Data Structures, Object Oriented Design, Fundamentals of Software Engineering, Multivariable Calculus, Mathematics of Data Models, Probability and Statistics, Linear Algebra, Database Design, Distributed Systems, Natural Language Processing, Intro to Machine Learning

Activities: Competitive Programming Club, Bodybuilding Club, Ski Club

TECHNICAL SKILLS

Programming Languages: C#, Java, Python, TypeScript, JavaScript, C, SQL, HTML, CSS

Frameworks & Libraries: React, Node.js, Express.js, JUnit, NUnit, Selenium, Jest, NumPy, pandas

Developer Tools: Git, Unix, Linux, Jira, Postman, MongoDB, GitHub Pages, Visual Studio, Docker

EXPERIENCE

Software Tools Co-Op — Insulet Corporation, *Acton, MA* — July 2023 – December 2023

- Developed C# solution for insulin pump quality assurance, introducing asynchronous validation of up to 200 units. Reduced batch processing time by 2 hours and slashed manual labor by 80%, enhancing manufacturing throughput
- Pioneered team's transition to automated API testing by automating execution of 42 manual tests with Python. Consequently spearheaded integration of ReadyAPI, reducing manual test run time 90% and minimizing human error
- Collaborated biweekly with 3 engineers to plan future software architecture, drafting component design and interaction
- Authored 122 unit and integration tests for new features using NUnit, enhancing software stability

Software Engineer Intern — Ultimate Kronos Group (UKG), *Virtual* — May 2022 – December 2022

- Resolved Tier 3 client issues using C#, HTML, and SQL, improving user experience and reducing bug escalations 7%
- Built app in Hackathon to automate local environment setup and build processes, expediting onboarding by 67%
- Earned Employee of Month award and internship extension offer after resolving critical defect for high-value clients
- Directed one stand-up meeting per week for 10-member team, fostering Agile practices and streamlining issue resolution
- Debugged 70+ failing end-to-end tests using Selenium and NUnit, contributing to 8% improvement in test coverage

PROJECTS

Attendance Assistant | *Python, Google Cloud Platform, Microsoft Azure, OpenCV* — January 2024

- Engineered facial recognition system to eliminate traditional roll call at club meetings, saving ∼5 minutes per event
- Enhanced video analytics by annotating all detected faces in input video using Google's Video Intelligence and OpenCV
- Leveraged Azure Face API to train facial recognition model, achieving 96.2% accuracy in identifying attendees

2048 Game | *Typescript, React, Express.js, MongoDB, REST API* — August 2023

- Designed and launched full-stack 2048 Game, introducing "undo move" and "video replay" features
- Amplified project scalability by learning and integrating MongoDB to store game history, boosting load capacity 1000%

Open-Source Game Platform | *TypeScript, React, Node, Jest, Git* — April 2023

- Developed Battleship for open-source platform, implementing custom UI, leaderboard, sound effects, and AI opponents
- Led sprint planning, biweekly stand-ups, and retrospective meetings for 4-person team to address development hurdles
- Optimized CI/CD using GitHub Pages, Heroku, and Netlify, cutting deploy times by 35% and ensuring 99.9% uptime

LEADERSHIP AND ACTIVITIES

Career Mentor | *Computer Science Mentoring Organization* — January 2023 – Present

- Achieved 100% job placement for underclassmen mentees through advising on resumes, interviews, and job applications
- Hosted resume and application workshops for 20+ students, sharing strategies from personal research and experience
- Advised students on personal projects, hosting weekly meetings for project planning, debugging, and learning resources

Event Coordinator | *Juvenile Diabetes Research Foundation (JDRF)* — September 2022 – Present

- Conceptualized and led fundraisers, devising marketing strategy to attract hundreds of attendees and raise ∼$23,000
- Recruited external student groups and volunteer teams to maximize engagement, boosting annual revenue by 20%