PATRICK WATROUS

(978) 886-7351 · Watrous.p@husky.neu.edu

https://linkedin.com/in/patrickwatrous   http://www.patrickwatro.us   www.github.com/pwatrous

---

EDUCATION

Northeastern University   Boston, MA
College of Computer and Information Science   Fall 2015 - Present
Candidate for a Bachelor of Science in Computer Science and Business Administration   2020 (Expected)

Relevant courses:	Fundamentals of Computer Science I and II, Discrete Structures, Calculus, Logic and Computation, Object Oriented Design, Computer Systems, Algorithms, Software Development
Clubs:	NU Hacks/ NU ACM/ Northeastern Orchestra
Awards:	Excellence Scholarship, Blackrock API award (MHacks8)

New England Conservatory of Music   Boston, MA
Enrolled in Violin Performance Certification program, studying advanced theory, composition, and performance.   2015 – Present

---

EXPERIENCE

Software Engineering Co-op   Boston, MA
Harvard Catalyst: https://catalyst.harvard.edu   Jan 2019 – July 2019

- Worked closely with BA, QA, Senior SWE, and Tech Lead on two agile teams, providing technical analysis through story grooming, feature development, and bug fix processes
- Increased RSpec test coverage on the national-scale SMART-IRB application by roughly 7%
- Implemented a new IRB request amendment workflow in Ruby on Rails
- Created several new React pages and components for the LearnResearch Tool
- Implemented HarvardKey single sign-on and addressed browser incompatibility issues in LearnResearch

Full Stack Developer   Allston, MA
Unibit: www.unibit.ai   Sep 2018 – Apr 2019

- Built interactive financial charts using Vue and Plotly.js, allowing users to compare various securities and market trends
- Built the UI for a conversational Q&A chat bot which could answer financial questions and point the user towards additional resources in the database
- Configured and populated Elasticsearch index, significantly speeding up application query times
- Implemented Google Analytics on documentation website, enabling the company to gather accurate metrics on the usage of each API endpoint

Full Stack Development Co-op   Cambridge, MA
Zylotech: www.zylotech.com   Jan 2018 – June 2018

- Wrote chart dashboard library using React, Redux, and Plotly.js to accelerate internal application development
- Built customer data management application with React, Express, Mongo, Node, and aws-sdk to be used by the data management team
- Created several custom components for the customer intelligence platform application using React and Material UI and populated them with data from a Node backend

Software Development Intern   Boston, MA
Center for Research and Training at the Learning Center for the Deaf: www.tlcdeaf.org   June 2017 – Dec 2017

- Utilized test driven development in order to rewrite a Flask API in Ruby on Rails
- Worked on rewrite converting the web client, an Angular application for interacting with STEM related ASL signs, into React

---

Skills

Languages:	HTML5, CSS3, Javascript (ES2017+), Java, Ruby
Frameworks/Libraries:	React, Vue, Node.js, Express, SCSS, Ruby on Rails, Elasticsearch, Material UI, Bootstrap

---

Interests

Violin, Origami, Hackathons, Runescape, Pho