

PATRICK WATROUS

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SKILLS

Languages: Javascript (ES6+), Java, SQL, HTML5/CSS3, Ruby
Frameworks/Libraries: React, Redux, Styled Components, React Query, Node.js, Express, jQuery, SCSS, Material UI, Bootstrap
Tooling: Git, NPM, Jenkins, Babel, Webpack, ESLint, Maven, IntelliJ IDEA, VSCode

EXPERIENCE

Software Engineer

Loomis, Sayles & Company: <https://www.loomissayles.com>

Boston, MA

May 2021 – June 2022

- Worked with tech partners in the fixed income department to convert multiple teams' needs into customizable, composable applications that interact with each other
- Handled all aspects of client-side application development, including choosing appropriate tooling, designing the UI, addressing bug reports/feature requests, and managing deployment processes
- Developed feature-rich persistent grids with AG Grid for analysis and live trade generation purposes
- Helped maintain department-wide component library and microservices, leveraging tools such as Git submodules, Typescript, Styled Components, React Query, and React's context and hook APIs

Software Engineer

Harvard Catalyst: <https://catalyst.harvard.edu>

Boston, MA

Jul 2020 – May 2021

- Operated within a fast-paced Scrum environment, frequently pushing releases out to approximately 900 research institutions
- Collaborated with BA and internal customer support team to troubleshoot live production issues, translating the issues into technical requirements and then implementing those requirements
- Performed diverse full stack development tasks to meet business needs, from creating and modifying database schema to building REST API endpoints, application UIs, and an email notification system

Junior Software Developer

Attently: <https://attently.io>

Seattle, WA

Aug 2019 – Apr 2020

- Implemented CloudWatch logging to track and categorize various user errors
- Added compatibility for The New York Times website to Winston, a Chrome extension that tracks various metrics on users as they watch videos
- Refactored Winston by modularizing the platform-specific logic, significantly decreasing the time required to add additional platforms to the extension
- Researched, implemented, and tested various gaze tracking solutions based off of leading academic work on the subject

Software Engineering Co-op

Harvard Catalyst: <https://catalyst.harvard.edu>

Boston, MA

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
- Implemented HarvardKey single sign-on to securely authenticate university-wide user sessions in the LearnResearch application
- Created several new React pages and components for LearnResearch

Full Stack Developer

Unibit: <https://unibit.ai>

Allston, MA

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

EDUCATION

Northeastern University

Khoury College of Computer and Information Science

Bachelor of Science in Computer Science and Business Administration (Accounting)

Boston, MA

2015 - 2020

INTERESTS

Violin, Origami, Finance, 3D Printing, Cooking, Chess, Mandarin Chinese, Old School Runescape