

Kirk Morgan

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Education

Northeastern University, Boston MA

May 2019

Bachelor of Science in Computer Science and Business Administration concentrating in Finance

GPA: 3.44/4.0

Relevant Courses: Algorithms, Databases, Networks, Object-Oriented Design, Software Development, Systems

Work Experience

Financial Analyst, Dividex Management LLC., Boston MA

Jun 2018 – Jan 2019

Provides securities litigation advisory services to funds and institutional investors to recover losses resulting from securities fraud.

- Designed and developed an in-house desktop application using Java, Apache POI, and Bloomberg APIs to automate client loss calculations. The new application increased speed and efficiency of calculations by 50%

Front-End Software Engineer, Projector PSA Inc., Boston MA

May 2017 – Dec 2017

Builds a web-based, business operations management platform aimed at small and medium sized firms.

- Added new features to the web version of the product using Backbone Marionette; organized old code where possible
- Performed workflow tests on the mobile app, catching, fixing, and logging about 25 bugs before initial deployment
- Coordinated with the back-end team to expand API coverage where necessary to implement mobile functionality

Co-op Project

Developed the expense reporting features of the new mobile application using React-Native and TypeScript. Assisted with designing the workflows and the UI for mobile expense reporting.

Back-End Software Engineer, Charles River Development, Burlington MA

Jul 2016 – Dec 2016

Builds software and solutions to manage and automate trading processes for large, buy-side institutional investment firms.

- Supported API development by implementing an add-in authentication feature, a developer mode, and a logging system for add-in/trade blotter interaction
- Spearheaded the effort to increase blotter team test coverage using unit tests and automated tests, increased test coverage by 20% resulting in roughly 30 solved bugs

Co-op Project

Developed a set of client requested blotter add-ins with C# using a suite of analytic tools provided by an outside company. The project led to talks of an acquisition and eventually resulted in a corporate partnership.

Computer Science Tutor, Northeastern University, Boston MA

Spring '15 & Spring '17

- Taught basic programming principles to students such as data structures, debugging, design, recursion, and testing
- Graded 15 students' homework twice a week and provided thorough constructive feedback, met if necessary

Software Projects

Wishlist – A client-server program allowing customers to manage an online cart of items selected from database. Includes a login system. The back-end is implemented in MySQL and Java, and the front-end in React.js.

Music Editor – A desktop application music editor that allows users to create/modify musical pieces. Includes an interactable GUI, MIDI playback, multi-tracking, and file loading/saving. Developed in Java and JavaFX and utilizes the MVC pattern.

Languages & Technologies

Languages: C# (familiar), C++ (prior experience), Java (fluent), JavaScript (familiar), SQL (familiar), Python (fluent)

Technologies: CSS, Git/GitHub, HTML, Jira, Jenkins, Jet Brains, Linux, React.js, React-Native, Windows