Kyler Boyle

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Education

University of Illinois at Chicago - Bachelor of Science, Computer Science   Expected May 2019

- **GPA**: 3.7/4.0
- Relevant Courses: Data Structures, Algorithms, Systems Programming, High-Performance Computing
- Self-Study: iOS Development, Machine Learning in Financial Markets, Big Data Analytics

Skills

Proficient Languages: C, C++, Python

Familiar Languages: Swift, C#, Bash, Java, SQL, x86 Assembly

Work Experience

Software Engineering Intern, PNT Financial, Chicago, IL   April 2018 - August 2018
(Python, C++, Bash)

- Backtested multiple futures strategies in Python and C++.
- Improved backtested returns of a strategy by upwards of 80% by testing many hedging options.
- Automated daily trade reminders based on trading strategies using an AWS server and Python.
- Experimented with neural networks using Tensorflow/Keras libraries in Python to predict future moves.

Engineering Intern, The Morey Corporation, Woodridge, IL   Sept 2017 - Feb 2018
(C, JavaScript)

- Worked on a team developing a proprietary radio transmission protocol in C for an embedded device.
- Developed a Systems Requirement Specification and testing documentation for the design of a device.
- Characterized radio devices for range and built a javascript program for the customer to have a visual representation of collected information for product deployment.
- Designed test cases for ranging sensors testing accuracy and feasibility on a customer contract.

Projects

Checklist Application, 2017

- Utilized Swift to create an iOS table view application that allows multiple checklists to be created and modified by the user.

Back Test Software, 2018

- Designed, implemented, and tested a suite of software to analyze and trade a futures strategy in Python.

QR Code Marketing Application, 2018

- Planned, designed and implemented an iOS application for a customer's marketing business to generate QR codes based on a user's uploaded content.

Coursemo Database Application, 2017

- Used SQL Server and C# to create a database application with a GUI that allows users to swap, register, and drop university courses.