Edward Lee

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GitHub   LinkedIn   Portfolio

Work Experience

Software Developer, National Stock Exchange Inc. - Jersey City, NJ (2016 - 2017)
- Created tools and libraries in C++/Python that were used by coworkers for debugging, benchmarking, and incorporating new industry wide requirements related to the Tick Size Pilot Program and SIP binary protocol feeds.
- Implemented several key modifications to the backend trading system including new validation and order logic for incoming client FIX messages.
- Developed a program to verify a critical timing change to the depth of book feed for compliance with SEC.
- Worked with open source libraries like Boost and zlib, using smart pointers, regexes, lock-free data structures, multithreading, and other features to write effective code.

Resource Tech, Network CPR Inc. - New Providence, NJ (2015)
- Deployed computers and peripherals for a large medical group, successfully upgrading over a thousand workstations.
- Wrote batch scripts that sped up the setup time for new machines.
- Taught and managed newer coworkers on the rollout process, and was trusted with handling other sites independently.

Skills
- **C++, C, Ruby, JavaScript, Python, Bash**
- **Qt, Boost, Rails, React, Flux, jQuery, HTML, CSS, SQL, Git, CVS, Eclipse, Visual Studio**

Education

Rutgers - New Brunswick, School of Arts and Sciences (2014)
- Bachelor of Science, Major in Physics, Minor in Mathematics
- **GPA 3.873,** summa cum laude, Dean's list (4 semesters)

Personal Projects

CatTube (Ruby on Rails, React, Flux, PostgreSQL) // Live **//** GitHub
- Automatically screenshots uploaded mp4 videos to generate preview thumbnails.
- Queries the user's video history in order to create personalized recommendations.

Space Defender (JavaScript, React) // Live **//** GitHub
- Generates particle effects with fade, random colors, speed, etc. for improved graphics.
- Enemy ship AI and tracking missiles update based on their nearest calculated target.

QtCrypt (C++, Qt) // GitHub
- Lightweight, multithreaded GUI application written in C++, using the Qt framework.
- Encrypts/decrypts files and directories using a symmetric key algorithm via libsodium.