Christopher Turgeon

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**Education**

**Rensselaer Polytechnic Institute Troy, NY**

*B.S. Computer Science* | *Cumulative GPA: 3.75* *August 2017 – Present*

* Rensselaer Medal for Outstanding Achievement in Mathematics and Science
* Relevant Coursework: Computer Science I, Data Structures, Foundations of Computer Science, Computer Organization and Architecture, Introduction to Algorithms, Principles of Software, Operating Systems, Application Programming in Java

**Red Hook High School Red Hook, NY**

*International Baccalaureate Diploma Recipient* *September 2013 – June 2017*

* Class Valedictorian, National Honor Society Treasurer, Varsity Baseball

**Work Experience**

**General Dynamics Mission Systems Pittsfield, MA**

*Software Engineering Intern* | *Conventional Prompt Strike August 2019 – Present*

* Due to NDA and U.S. security clearance, critical details are omitted
* Developed mission critical software for state-of-the-art U.S. weapon control systems ranging from front-end interfaces for U.S. Navy operators, secure backend communication networks, flight software, to containerization and orchestration
* Engaged in daily scrums with team and rapidly produced in a Scaled Agile environment with test driven development and systems specifications to guide code

**Summer Pipeline Programs at Rensselaer Troy, NY**

*Resident Teaching Assistant* | *Overnight Camp June 2018*

* Lead as teaching assistant, camp counselor, activity leader, field trip guide, and mentor to over 30 middle and high school students aspiring to attend a STEM university
* Coordinated and assisted in Arduino coding and circuit building, web-based coding labs, DNA extraction experiments, and outdoor games

**Selected Independent Projects**

More projects available@https://github.com/christurgeon

* Engaged in an open-source, team-based project to develop a backtesting service to validate stock trading algorithms
* Automated data collection by developing a web scraper for Yahoo Finance to routinely update PostgreSQL database
* Implemented effective algorithms to generate simple and exponential moving averages for technical analysis

**Unlist**

* Created an open-source desktop application to unsubscribe from Gmail email lists
* Constructed a C# GUI to assist with user experience and built a Python backend utilizing Selenium WebDriver, IMAP, and Gmail API to achieve email unsubscribing

**Chat Server**

* Built a chat server in C to communicate with connecting clients via TCP/UDP
* Incorporated multithreading with the *pthread* library to delegate handlers to incoming clients
* Utilized test driven development by building test clients before implementing server and manually tested with *netcat*

**C Compiler**

* Developed a compiler that takes in C variable assignments an\d arithmetic operations such as addition, subtraction, multiplication, division and compiles them into MIPS Assembly instructions

**ConfiNet**

* Developing an open-source, CLI networking assistant that supports IP lookup, port scanning, and a FTP
* Implemented Huffman Compression algorithm to compress files before being sent

**Skills & Interests**

* Languages / Technologies: *Proficient* in C++, C, Java, Python; *Familiar* with HTML, CSS, JavaScript, TypeScript, Angular, MySQL, MIPS Assembly, gRPC; *Experienced* with Git, Unix/Linux, Bash, Docker, Protocol Buffers, RocksDB, LaTeX, Selenium
* Member of the Rensselaer Ski Club, Rensselaer Center for Open Source and participate in the Hack Binghamton University Hackathon and the Hack Tech Valley Hackathon

**Honors & Awards**

* **Renssaeler Medal** – Awarded a $100,000 scholarship from Rensselaer for academic achievement *September 2017*