Gabriel Dougherty

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Work Experience

Software Engineer *April 2022 – Present*
Torstone Technology
- Create C++ microservices for generating trades to import new Canadian savings plans.
- Design REST interfaces to serve asset servicing data for use by internal engineering teams and graphical interfaces in the Inferno back office platform.
- Adapt to changing requirements from customers and other engineering teams while reliably shipping features on an Agile schedule.

Lead Software Engineer *July 2021– April 2022*
Software Engineer II *December 2019 – July 2021*
Software Engineer I *May 2019 – December 2019*
Cadence Design Systems
- Architected a cross-language black box optimization framework and helped integrate it into Cadence products.
- Created high level network routines in C++, Python and Java to communicate optimization constraints, points, and objectives.
- Advocated for and implemented a standardized Git workflow and Continuous Build System to streamline the team development process.
- Collaborated with teammates on design of PostgreSQL schema and Java Spring REST API to track optimization workflow details.
- Implemented user interface improvements in a Genetic Algorithm optimization cockpit in C++ and Qt.
- Preprocessed waveforms and compared for similarity in Python and NumPy.

Software Engineering Intern *May 2018 – August 2018*
Acutec Precision Aerospace
- Developed a C# application to automate documentation for every finished part produced.
- Reduced documentation generation time by 90% when compared to manual documentation.
- Expanded Microsoft SQL Server database schema to adapt to changing business requirements.
- Created data analytics tools to detect anomalous machined part information.

Skills

- **Languages:** C++, SQL, Python, Java, Bash, Cadence SKILL
- **Frameworks/Libraries:** Google Protobuf, C++ Boost, Java Spring Boot, Qt, ZeroMQ, NumPy
- **Software:** Git, PostgreSQL, Linux, Qt Creator, GNU Make, Cmake, Maven

Education

Edinboro University of Pennsylvania
- B.S., Computer Science *Graduation: May 2019*