

Gabriel Dougherty

contact@gabrieldougherty.com | linkedin.com/in/gabriel-dougherty | github.com/GabrielDougherty

Work Experience

Software Engineer II

December 2019 – Present

Software Engineer I

May 2019 – December 2019

Cadence Design Systems

- Architect a cross-language generalized optimization system and help bring it to Minimum Viable Product.
- Create high level network routines in C++, Python and Java to communicate optimization constraints, points, and objectives.
- Advocate and implement a standardized Git workflow and Continuous Build System to streamline the team development process.
- Collaborate with teammates on design of SQL schema and REST API to satisfy business requirements.
- Implement user interface improvements in a Genetic Algorithm optimization cockpit in C++ and Qt.
- Prototype waveform analysis 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.

Network Engineering Intern

June 2017 - July 2017

Erie First Christian Academy

- Performed a complete overhaul of network infrastructure for international student dormitories.
- Implemented web filtering, network antivirus, and traffic shaping in a hybrid network setting.

Skills

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

Education

Edinboro University of Pennsylvania

- B.S., Computer Science

Graduation: May 2019