Adam Fowles

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EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

MS in Computer Science
May 2017 | Rochester, NY

BS in Computer Science
May 2017 | Rochester, NY

Minor in Communication

COURSEWORK

GRADUATE

Big Data
Data Security and Privacy
Pervasive and Mobile Systems
Computer Networks
Cryptography
Parallel and Distributed Systems

LINKS

Github:// **acf5118**
LinkedIn:// **adamfowles**

SKILLS

PROGRAMMING

Extremely comfortable:
C++
Comfortable:
Java • C# • Python
Familiar:
Go

AGILE

JIRA • Confluence

BUSINESS

LaTeX • Word • Excel • PowerPoint

OPERATING SYSTEMS

Windows (7, 8, 10) • Linux (Raspbian, Fedora, Centos, Ubuntu) • QNX • SunOS (Solaris)

TECHNOLOGIES

Arduino • AWS EC2 • Boost C++ • Bitbucket • CLion • CMake • Crucible • Docker • Eclipse • Git • IntelliJ IDEA • Jenkins • OpenCV • PostgreSQL • PyCharm •QT • Raspberry PI • SVN • VirtualBox • Visual Studio

EXPERIENCE

EAGLEVIEW | Software Engineer

Aug. 2016 - Present | Rochester, NY

Aerial imagery, data analytics, property data, and GIS solutions.

- Designed and developed an application for extracting and developing raw imagery from an aerial capture system. Built on top of AWS using EC2.
- Maintained a legacy capture platform for producing aerially triangulated imagery while building the next generation software stack. Ported algorithms for developing images built for MFC Windows desktop applications to cross-platform modern C++ libraries.
- Implemented a library for writing a custom image format that efficiently displayed tiled imagery at multiple zoom levels. Built an application to create images of that format running inside AWS Lambda.
- Utilized Jenkins for continuous integration with Docker for building and deploying applications and libraries. Wrote unit tests using google test with lcov/gcov code coverage tools.

LOCKHEED MARTIN | Software Engineering Intern

Jun. 2015 - Aug. 2015 | MST - Syracuse, NY

- Worked on tracker software for the TPQ53 radar system, implemented features to allow for better range accuracy when tracking projectiles.

Jun. 2014 - Aug. 2014 | MST - Syracuse, NY

- Worked with the Non-Propulsion Electronics team on a ship control system for Seawolf-class submarines.

Held a United States government security clearance at the Secret level.

GE AVIATION | Software Engineering Co-op

Aug. 2014 – Dec. 2014 | Grand Rapids, MI

- Worked with the Navigation and Guidance team on software for the Boeing 737, specifically the Flight Management System (FMS).
- Ran confidence and interoperability testing on new releases of the 737 FMS in a lab setting.

R.I.T. DEPARTMENT OF COMPUTER SCIENCE

Teaching Assistant
Jan. 2016 – Aug. 2016 | Rochester, NY

- Taught recitations on material presented during the week for introductory Computer Science courses.
- Held 12 hours of tutoring during the week on all topics covering the first three semesters of the undergraduate degree.

SPOTLIGHT PROJECT

AUTOMATED TAPING GRAPHICAL INTERFACE - JAVA

JavaFX | Arduino

- Collaborated with a colleague at the University of Connecticut to design the software front end for his mechanical engineering senior design project, a custom built, CNC-like, automated taping machine.
- Written using JavaFX, the graphical interface interacted via serial communication with an Arduino that controlled the x and y axis motors of an automated machine for applying industrial tape to parts.
- The project won for best senior design among engineers.