Aaron Felkai

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Skills and Languages

Technical Skills: Software Development, Software Testing, Agile/Scrum, Version Control, System Debug, Quality Assurance, Robotics, System Administration, System Building, Security Clearance: Secret

Languages: C#, C++, C, Java, Python

Experience

January 2021 – Current

Software Engineer, Test Equipment Software, *Northrop Grumman Corp.*, Salt Lake City, Utah
- Designed, developed, documented, and maintained a full-featured testing framework, including a template framework client-generator (C#).
  - Sped up development of hardware tests by 80% by delivering a bootstrapped framework instead of developing a one-off project.
- Held regular peer reviews and advised on the team's design decisions (Github).
- Integrated automated CI/CD tools for the team's software to speed up accurate development and gain more visibility on the quality of our software (Jenkins, SonarQube, NuGet).
- Developed requirements documents for inter-project commands and protocols.
- Mentored and managed a summer intern.

January 2020 – January 2021

Associate Software Engineer, UH-60V Black Hawk, *Northrop Grumman Corp.*, Woodland Hills, California
- Wrote software requirements based test procedures for embedded software applications. (C++, C, Python)
  - Performed structural coverage analysis to satisfy DO-178C objectives.
  - Tested software on both the target hardware and the software development platform.
- Proposed automated continuous improvement tools for test procedures to drastically reduce setup time and errors, and to speed up development.
- Participated in peer reviews of software, tests, and low level requirements.

May 2018 – Aug 2018

Software Engineering Intern, *Intel Corp.*, Hillsboro, Oregon
- Wrote software for managing entitlements in the corporate access management system. This included bulk inserts of 200+ new entitlements. (C#, Postman, SailPoint IdentityIQ, Angular)
- Developed a proof of concept for consuming and utilizing SAP data of unknown size/shape to resolve legacy API data issues. (OData, JSON, XML, C#)
- Assisted in making early architecture decisions on Enterprise program to revamp demand and revenue forecasting.
- Added .NET Core support for existing .NET Framework software used in enterprise-wide cloud-based application logging. (.NET Core, C#, VSTS CI/CD, NuGet)
- Wrote an enterprise framework for easily interacting with a cloud-hosted message broker and deployed it on the company's artifact repository. (ActiveMQ, C#, NuGet)

June 2017 – Aug 2017

Software Engineering Intern, *Intel Corp.*, Hillsboro, Oregon
- Authored unit tests for testing a web-hosted inventory management system. (C#, MS Test, VSTS)
  - Reduced deployment time by over 50% in 5 different applications while reducing the defect rate by 40%.
- Created an Android app to allow for barcode scanning in an inventory management system with Xamarin.

Education

2015 – 2019 **B.S. Computer Science**, *GPA: 3.62*, California State University, Northridge, Northridge, California