




CRISTIAN GONZALES

ASSOCIATE SOFTWARE ENGINEER AT NORTHROP GRUMMAN

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EXPERIENCE

Northrop Grumman

Associate Software Engineer

July 2019 – Present

- Developed a new API to filter Java Message Service (JMS) messages from a legacy JMS service, using JMS message selectors and Google Guice injections to differentiate between different instances of the service.
- Created and maintained Jenkins CI/CD pipelines to streamline build processes in different target environments—namely, Linux, Solaris, and Windows—decreasing the time of the build and release process from four days to two hours.
- Implemented automated build systems for two legacy codebases using Apache Maven (the former build system in place for one codebase was Apache Ant, and there was no build automation system for the second codebase).
- Maintained Java code in Red Hat Enterprise Linux (RHEL) and Windows environments, which included implementing a new feature in a minor version release.
- Developed and maintained shell and Perl scripts to streamline build and release processes, tailored to be callable by both configuration management outside of a CI/CD pipeline, and the Jenkins agent (instantiated by the Jenkins server).
- Promoted Agile methodologies by leading daily Scrum meetings, retrospectives, and plannings in an program-wide effort to migrate away from a waterfall model.
- Oversaw another developer in the implementation of unit test automation and code coverage aggregation.

Northrop Grumman

Software Engineering Intern

June 2017 – August 2017

- Interfaced with NASA's GMSEC API to build a proof-of-concept visualization tool which tracked health statuses of satellites.
- Ported ephemeris data, via web sockets, across multiple Northrop Grumman domains/applications while leveraging code reuse through dependency injections, using Google Guice.

SKILLS

LANGUAGES: C, Java, Python, SQL

OTHER LANGUAGES: CSS, HTML, JavaScript, Perl, Swift

SHELLS (AND THEIR SCRIPTING DERIVATIVES): Bash, C, Windows PowerShell

BUILD SYSTEMS: Apache Ant, Apache Maven, make

TOOLS: Docker, Eclipse, Git, L^AT_EX, PostgreSQL, PyCharm, Jenkins, Xcode

CONCEPTS: Agile Development (Scrum framework), Code Coverage, Continuous Integration/Delivery (CI/CD), DevOps, Dependency Injections, Distributed Systems, Release Engineering, RESTful APIs

EDUCATION

University of California, Santa Cruz

Computer Science, B.S.

June 2016 – June 2019

AWARDS AND DISTINCTIONS

Bravo To Our Stars

Awarded by Northrop Grumman

March 2020

References available upon request.