

# Jeffrey Allen

Software Engineer/Cloud Application Consultant

Active Top Secret Security Clearance

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[github.com/hrefjeff](https://github.com/hrefjeff)

## Professional Summary:

Software engineer with 10 years of industry experience and a Master's Degree in Software Engineering. Experienced with object-oriented programming, full-stack web development, agile methodologies, and enterprise application deployment using Kubernetes. I am currently improving my knowledge of distributed systems by working in a DevOps role.

## Skills:

**Proficient Languages:** C++, Python, PHP, HTML5/CSS3, JavaScript, Go

**Conversational Languages:** Java, C/C#, Objective-C, Swift, SQL

**Tools:** Kubernetes, JIRA, Git, Ansible, Jenkins, Gitlab, Vim, Django, Amazon & Google API's, Maven, SonarQube, Nexus 2 & 3, VMWare, Windows Administration Tools, Nvidia Nsight, Nvidia Compute

**Operating Systems:** Linux (Redhat 6/7/8, Amazon's Linux, Debian 9), Mac OS, Windows (7/8/10/11)

## Professional Experience (Side project information available upon request):

**Sr. Principal Devops Engineer** at [Northrop Grumman Corporation](#) (May 2022 - Present)

- Create, maintain, and troubleshoot Kubernetes clusters
- Build containers that adhere to OCI standards, and maintain registry of images for teams to use
- Install/configure/develop/maintain virtual environments using VMWare's ESXi environment
- Automate the process of creating virtual machines and install dependencies with Ansible scripts
- Active Directory administration with concentration on providing specialized permissions
- Develop Python scripts to automate interacting with RESTful API's
- Advise teams on how to create the best CI/CD pipeline solution for software development
- Atlassian tool suite administration (Crowd, Jira, Confluence, Mattermost)

**Development Environment Specialist** at [Northrop Grumman Corporation](#) contracted to [Lockheed Martin Corporation](#) (Apr 2020 - May 2022)

- Administer, improve, and maintain build tools, applications, libraries, and machines
- Ensure Software Development Environments are up-to-date, relevant, and security compliant
- Generate Cyclomatic Complexity reports by using Berkley's UCC standardized tool

**Software Engineer** at [Northrop Grumman Corporation](#) (Apr 2019 - Apr 2020)

- Participate in project planning, sprint planning, daily standups, sprint reviews, and sprint retros
- Collaborate with government customers to translate requirements into working features/products
- Raise unit test coverage of source code above 60% 4 months ahead of schedule

**Web Application Developer** at [Nobletech Solutions Inc.](#) (Jan 2018 - Apr 2019)

- Implement email system, authentication system, and introduce AJAX techniques
- Upgrade application from PHP 5.6 to 7.1 while maintaining passing unit tests
- Architect web application infrastructure on Microsoft Azure cloud platform

**Software Engineer** at [Canvas Inc./Lojix](#) (Oct 2016 - Jan 2018)

- Write technical documentation and software process frameworks in an agile environment
- Teach interns how to build a website using a LAMP stack in one summer
- Create interactive financial graphs using the Google Charts JavaScript API

**Web Application Developer** at [Simon Solutions](#) (Jan 2014 - Oct 2016)

- Implement the Scrum Agile software development method with a team of 4 developers
- Automate code deployment process using Amazon Web Services
- Leverage Python's Django web framework to create software services
- Collaborate with certified amazon engineer to reduce monthly operation costs by over \$1,000

**Research Assistant** at University of Houston, under Dr. Ioannis Pavlidis (*May 2013 - Aug 2013*)

- Design and create an iPhone application that controls an embedded system via bluetooth
- Design and create an embedded system module for the Arduino microcontroller
- Analyze and present research results for several projects conducted within the lab

**Education/Certifications:**

- ★ M.S. Software Engineering; GPA 3.5 The University of Alabama in Huntsville (*May 2024*)
- ★ B.S. Computer Science; Minor: Math, GPA 3.19, University of North Alabama (*May 2015*)
- ★ [Security+](#), CompTIA (*Jul 2023*)
- ★ [Certified Kubernetes Administrator \(CKA\)](#), The Linux Foundation (*Mar 2023*)
- ★ [AWS Cloud Practitioner](#), Amazon (*Feb 2022*)
- ★ [Professional Scrum Master I](#), Scrum.org (*Nov 2017*)