Thomas Campbell

DevOps Engineer, Software Engineer

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Education

George Mason University - Fairfax, VA   *Graduated: Spring 2023*
    Major: B.S. Applied Computer Science Game Design
    Minor: Software Engineering

First Colonial High School - **Legal Studies Academy -** Virginia Beach, VA   *Graduated: June 14, 2018*
    High School Advanced Diploma - Legal Studies Advanced Diploma

Relevant Employment

DevOps Engineer - **INADEV**   *Dec 2022 - Present*

Junior Devops Engineer at INADEV focusing on Governmental Projects. Working with cutting edge technologies such as **Kubernetes**, **Docker**, **Jenkins**, **AWS (S3, EKS, RDS, etc)**. Designed, Deployed, and Upkeep **K8s** clusters on **EKS**. Implements, Develops, and maintains **CI/CD** pipelines using **Jenkins**, **Git**, and **Docker** to automate the build, test, and deployment process. Participates in daily stand-ups and on call rotations to swiftly address and resolve incidents effectively. Preparing to begin work towards an AWS certification in DevOps.

Full Stack Dev/DevOps Intern - **INADEV**   *Jun 2022 – Dec 2022*

Worked to develop a deduplication script using **Python**, making use of libraries such as **numpy** and **recordlinkage**. Worked to optimize algorithms and adapt to changing project requirements. This code has since been used in multiple government coding challenges and continues to see use by the company. Trained in **DevOps** to company standards in **Terraform**, **AWS**, **Docker**, **Kubernetes**, etc. to prepare for a transition to a full time **DevOps Engineer**.

Undergraduate Research Assistant - **GMU/ Commonwealth Cyber Institute**   *Nov 2021 - May 2022*

Undergraduate position as a research assistant for the MVSF (Mason Vulnerability Scoring Framework) project at GMU doing *Full Stack Web Development* and assisting in writing and reviewing scientific papers for the project. Frontend done using **Javascript** and **ReactJS** with the backend running on **Python** and **Flask**. Architecture built with **Docker**.

Projects

Homelab/Server Machine - *Personal*

Devoting a significant portion of personal time to conceive, construct, and maintain a modest but sizable homelab infrastructure. Orchestrated an array of self-hosted services catering to personal and familial needs. Involves extensive work with **Networking**, **Jenkins** (self-hosted for personal projects), **Kubernetes**, **Docker Registries**, **Shell Scripting**, **Automation**, **etc.** Available over the internet via a nginx reverse proxy through a personally owned domain name, protected with authelia and cloudflare. Committed to ongoing learning and tinkering, with a focus on expanding proficiencies in DevSecOps and Self-Hosted Projects.

InvenPro - *Mid-Atlantic Surveying and Land Design*

Solo Project. Created and continued to develop an inventory management program called "InvenPro", a full standalone program to manage the inventory for Mid Atlantic Surveying and Land Design. Developed entirely in **Python** using various libraries and **Json** file I/O for **persistent storage**, InvenPro is capable of storing any items with any attributes, allowing full flexibility to the user. Currently in use by MAS-LD.

Skills

DevOps: Docker, Jenkins, Kubernetes, AWS (S3, EKS, RDS, Cloudwatch, etc.), Sonarqube, Rancher, Git, Shell Scripting, Linux Administration, Logging and Monitoring, Terraform

Programming Languages: Python, JavaScript, Java, ReactJS, C, C++, C#, CSS, PHP, HTML

Programming Concepts: CI/CD**,** Object-Oriented Programming, Data Structures, Procedural Programming, Git, Agile/Scrum methodology.