

TIMOTHY WU

Permanent Address:
8491 Link Hills Loop
Gainesville, VA 20155

(571) 635-6685
timothywu02@gmail.com
www.linkedin.com/in/timothypwu

Current Address:
6000 Heather Drive, Apt. A
Blacksburg, VA 24060

EDUCATION

B.S. Computer Science and Minor in Mathematics - Blacksburg, VA
Virginia Polytechnic Institute and State University

- GPA: 4.00 / 4.00

*Expected May
2023*

CERTIFICATIONS

Certified Kubernetes Application Developer – Issued by The Linux Foundation

July 2022

Certified GitLab Associate – Issued by GitLab

May 2022

EXPERIENCE

Software Engineer Intern at CACI International - Ashburn, VA

*May 2022 -
Present*

- Designed a single page web application using ReactJS and GatsbyJS technologies
- Configured GitLab CI pipelines to build the web application using Docker and deploy to AWS Elastic Container Registry and GitLab Pages
- Created dashboards using Power BI to better visualize incident and management data
- Served as the scrum master managing eleven other interns working in an Agile environment with bi-weekly sprints

Undergraduate Researcher at the InfoVis Lab @ Virginia Tech - Blacksburg, VA

*February 2022 -
Present*

- Improved the research team's current Jupyter notebook to provide options for multiple dimension reduction algorithms
- Streamlined the notebook to allow easier user access for adding custom dimension reduction algorithms and customizing algorithm parameters
- Implemented image plot points for graphs using external Python image processing libraries
- Research Work Link: <https://github.com/TomWoah123/AndromedaJupyter>

Undergraduate Teaching Assistant at CS @ Virginia Tech - Blacksburg, VA

*January 2022 -
Present*

- Held ten office hours a week to help students grasp the concepts of advanced software design and data structures in CS 3114: Data Structures and Algorithms
- Produced project help videos and provided feedback on programming assignments to foster improvement among the students

Cloud Engineer Intern at Zeta Associates Incorporated - Fairfax, VA

*May 2021 -
August 2021*

- Designed a reliable failover system that would migrate stateful resources across Kubernetes Clusters using Velero and MinIO
- Programmed shell scripts to automate the migration process based on Prometheus metrics
- Collaborated with two other interns to deploy, network, migrate, and monitor full-stack applications across a network of Kubernetes clusters

SKILLS

- Knowledge of working and collaborating on GitLab and Jira
- Programming Languages: Java, Python, C, SQL, MATLAB, R
- Tools and Technologies: Kubernetes, Docker, Android Studio
- Linux-based environments for software development

RELEVANT COURSEWORK

- Cryptography
- Computer Organization
- Data Structures and Algorithms
- Combinatorics and Graph Theory