

BRIAN WALHEIM

101 Merrybrook Drive Havertown PA 19083 267-639-8386 bwalheim1205@vt.edu
www.linkedin.com/in/brian-walheim-8233761b6/ github.com/bwalheim1205

Objective: A senior computer science student seeking a software engineering position specialized in cloud, backend or full stack development starting after graduation in the spring.

WORK EXPERIENCE

Software Engineer Co-Op, Peraton (Jan-Aug 2022)

- Developed an end to end data analytics platform to perform ETL operations in the AWS cloud as part of a Agile software development team us
- Demonstrated use cases on the platform by developing a predictive model to identify patients likely to be readmitted 30 days using synthetic health care data
- Utilized open source and COTS tools: Apache Nifi, Apache Spark, Databricks, and Dataiku

Undergraduate Teaching Assistant, Virginia Tech (Jan-May 2021)

- Assisted students in understanding course materials and assisted them with coding assignments covering C, Linux, and basic Assembly programming

EDUCATION

BS in Computer Science with Minor in Cybersecurity, Virginia Tech (May 2023)

- **Relevant Courses:** Data Structures and Algorithms and Computer Systems
- **Current Courses:** Principle of Computer Security and Network Architecture and Programming
- **GPA:** 3.98 **In Major:** 4.0

CERTIFICATIONS

Amazon Web Services Solutions Architect - Associate (Expires: Aug 2025)

Amazon Web Services Cloud Practitioner (Expires: Apr 2025)

PROJECTS

Undergraduate Research (Fall 2022-Present)

- Researched a Natural Language Processing application for student-teacher evaluations for SPOT surveys at Virginia Tech as part of Dr. Gray's undergraduate research team
- Utilized common Python NLP packages such as spacy and transformers

Memory Allocator

- Designed and implemented a heap memory allocator in C similar to malloc.
- Utilized a segregated free list and optimized design for heap utilization and performance.

TECHNOLOGIES

Proficient: Python, Java, C, Linux, Amazon Web Services

Familiar: Docker, Ansible, Terraform

ACTIVITIES

Virginia Tech Chapter Delta Chi (Spring 2021 - Present)

- **Sergeant in Arms (Spring 2022 - Fall 2022)**
 - Executive board position in charge of the member conduct and standards
 - Act as Risk Manager position in charge of ensuring proper safety protocols
- **Community Service Chair (Fall 2021)**
 - Organized canned food drive collecting 500 pounds of food for local food pantry