

Patrick Riley

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[My GitHub](#)

Objective

Cleared (TS/SCI) undergraduate student looking for work opportunities in AI/ML and/or microservices.

Education

Virginia Polytechnic Institute and State University- 08/2022-5/2024

GPA: 4.0/4.0, MEng Computer Science Accelerated Masters Program.

Virginia Polytechnic Institute and State University- 08/2019-5/2023 (Expected BS)

GPA: 4.0/4.0, BS Computer Science. Philosophy, Political Science, and Economics Minor. Dean's List. ΦBK, ΦKΦ.

Northern Virginia Community College (Dual-Enrollment)- 08/2017 to 06/2019

4.0/4.0 Unweighted GPA

Work Experience

Software Engineer—greymatter.io / Decipher Technology Studios (6/2019- 9/2020; 5/2022-Present)

- Designed and built self-validating configuration schemas for microservice management with GitOps.
- Developed AI auto-scaler microservice for service management and service mesh technology.
- Experimented and implemented various strategies to improve service-mesh performance and cost efficiency.

Software Engineering Co-Op—Peraton (8/2021- 12/2021)

- Worked in an Agile environment to deliver sensitive microservice mission-planning software to DoD customers

IT Software Engineering Intern—Ford Pro Intelligence (5/2021- 7/2021)

- Implemented full-stack project to provide major car rental services business insights into their fleet's activities
- Utilized Test-Driven development to integrate microservices with production SQL databases and Vue.js frontend

Undergraduate Research Assistant with Hume National Security Center (9/2019- 5/2022)

- Worked with Professors Doyle and Fowler on the Raytheon RAAIDS project for autonomous threat detection and reinforcement learning based mission planning.

Extracurricular Activities

VTHacks (8/2019- Present)

- VTHacks IX (2021-2022, Director):
 - Oversaw transition back to in-person event by reinvigorating connections to sponsors and communities
 - Lead team of 15 motivated students to plan event for 500+ participants over 36 hours
- VTHacks 8 (2020-2021, Co-Director):
 - Organized and coordinated efforts across teams and focuses to bring together a cohesive event
 - Overcame the challenges of transitioning to an all-digital event through coordination and dedication
- VTHacks VII (2019-2020, Executive Board Member):
 - Worked as part of executive board focusing on problem-solving and overall productivity
 - Led instructive workshop for introductory participants focusing on learning techniques and strategies

HackBI I (1/2018) and Hack BI II (11/2018)

- HackBI II: Served as Director. Oversaw a **160%** staggering growth in attendance with over 300 hours of work
- HackBI I: Served as Workshop Coordinator and Logistical support, invested over 100 hours

Coding Club/CyberPatriot (2016 – 2019)- President and Founding Member

Virginia Boy's State- (2018)

Skills

Proficient

Reinforcement Learning
Cue/Golang
Python
Java (Spring)
Docker/Kubernetes

Experienced

C
Unix
CI/CD Pipelines
Machine Learning Libraries (Pytorch, Keras)

Awards and Certifications

Department of Computer Science Sophomore/Junior Scholar Award (05/2021, 05/2022)

Virginia Tech Davenport Leadership in Engineering Scholarship (05/2018-Present)

National Football Foundation Washington Chapter Scholar-Athlete of the Year Scholarship (04/2019)