

PATRICK CROSS

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Permanent Address: 1300 Army Navy Drive, Arlington, Virginia 22202

OBJECTIVE

Seeking an internship opportunity in software development, data science, cloud computing, AI/ML, or cybersecurity in Summer 2024.

EDUCATION

Bachelor of Science in Computer Science, Virginia Polytechnic and State University Expected 2025
GPA: 3.70

Relevant Coursework: Software Design and Data Structures, Intro to Computer Organization, Problem Solving in CS, Intro to Linear Algebra, Intro to Discrete Math, Applied Combinatorics and Graph Theory

SKILLS

Software Skills Python, Java, C, AWS, Assembly, Microsoft Office, Microsoft Azure, Linux

Technical Skills AI/ML, Pandas, NumPy, Simulation Environments, Data Analytics, SciKit-Learn

EXPERIENCE

Software Engineer Intern Jun 2023 - Present
Parsons Corporation/BlackHorse Solutions, Centreville, VA

- Spearheaded groundbreaking AWS research, pushing the boundaries of EC2 instance creation to revolutionize security and detection methodologies.
- Conducted meticulous analysis of server vulnerabilities, devising scenarios to fortify proactive defense strategies.
- Developed and implemented comprehensive unit tests utilizing Pytest to validate the functionality and reliability of our planning engine.

Undergraduate Research Assistant (RAAIDS: AI/ML Mission Execution) Sept 2022 - Jan 2023
Virginia Tech Hume Center, Blacksburg, VA

- Pioneered research initiatives to significantly reduce sensor operator workload while surpassing target and intelligence objectives.
- Integrated machine learning models into simulated environments for precise tracking and surveillance operations.
- Designed and rigorously tested training scenarios and sensor proxy models for optimal performance.

Software Development Intern May 2022 - Aug 2022
nrgdenterprise inc., Seattle, WA

- Authored comprehensive reports on blockchain systems and cryptocurrencies for informed decision-making.
- Presented compelling data on cryptocurrency and stablecoin markets using Microsoft Office.
- Engineered financial plans and executed smart contracts for groundbreaking cryptocurrency tokens.

IT Intern Jun 2021 - Aug 2021
Novitium Pharmaceuticals, East Windsor, NJ

- Architected SonicWall firewall policies to fortify network security.
- Performed rigorous testing of network switches for seamless endpoint network access.
- Orchestrated implementation, configuration, and optimization of pharmaceutical packaging equipment.

EXTRA-CURRICULAR ACTIVITIES

- Member of UX Design Team at VT Hacks
- Member of AI/ML Club
- Member of Leetcode Club