PATRICK CROSS

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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 2024

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, Git, HTML, CSS, 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

- Collaborated with student organizations to host events within the hackathon, fostering a diverse and enriching experience for attendees.

Member of DSA Club

- Engaged in a series of workshops focused on data structures and algorithms, deepening understanding of core concepts and optimizing problem-solving skills.

Member of AI/ML Club

- Employed a creative approach to problem-solving, identifying unique applications for AI/ML technologies and proposing imaginative solutions to potential problems.