

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, Computer Organization, Problem Solving in CS, Linear Algebra, Discrete Math, Applied Combinatorics/Graph Theory, Data Structures and Algorithms

SKILLS

Software Skills Python, C, Java, JavaScript, Git, HTML, CSS, AWS, Assembly, Microsoft Office, Microsoft Azure
Technical Skills Linux, AI/ML, Pandas, NumPy, Simulation Environments, Data Analytics, SciKit-Learn

EXPERIENCE

Software Engineer Intern Jun 2023 - Aug 2023

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

ngdenterprise 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.
- Synchronized implementation, configuration, and optimization of pharmaceutical packaging equipment.

EXTRA-CURRICULAR ACTIVITIES

Committee Lead of Logistics Team at VT Hacks

- Orchestrated seamless operations for a hackathon, overseeing essential facets including catering arrangements, project judging logistics, procurement of prizes, and coordination of transportation for students

Officer of DSA Club

- Coordinated a series of workshops for students to focus on learning data structures and algorithms, deepening their 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.