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107 Summit Street
Charlottesville, VA 22903

EDUCATION

University of Virginia, Charlottesville, VA
Master of Engineering in Systems Engineering

August 2025 - May 2026

University of Virginia, Charlottesville, VA
Bachelor of Science in Computer Science

August 2022 - May 2025

- Rodman Scholar, Dean's List, Graduated Summa Cum Laude; GPA: 3.91/4.0
- Co-founded the UVA chapter of the national Google Developer Groups organization
- Collaborated with a team of 6 to design, test, and implement a full-stack data retrieval and display system for the Blue Trunk foundation
- Relevant Coursework: Data Structures & Algorithms, Computer Systems & Organization, Computer Networks, Software Engineering, Advanced Cybersecurity, Database Systems, Financial Engineering, Statistics

KEY SKILLS

- Languages: Python, Javascript, Java/C#, C/C++, Rust, SQL, Kotlin, x86 and ARM Assembly
- Frameworks: React, Node, Django, Tailwind, PyTorch/Tensorflow, Prisma, NumPy/Pandas/Scikit
- Technologies: Git/Mercurial, Linux & Windows System Administration, SQLite/PostgreSQL, MatLab, Blender/3ds Max, CAD, Microsoft Excel

PROFESSIONAL EXPERIENCE

BrokerBotics, Charlottesville, VA
Software Engineering Intern

November 2023 - August 2025

- Collaborated in an AGILE environment to build full-stack software across two week sprints
- Created a novel trade automation system to increase dividend yields for client accounts by a factor of 2-3x
- Built several high-performance pipelines for retrieval and analysis of options data from thousands of companies across worldwide markets

SERG Research Lab, Charlottesville, VA
System Engineer

July 2023 - May 2024

- Designed an educational robot platform to teach over 300 students at elementary schools in two continents fundamental programming skills
- Devised a novel operating system in MicroPython allowing children to input directions to the robot via an intuitive 5-button interface

Renaissance High School, Charlottesville, VA
IT Consultant

May 2021 - July 2022

- Filmed, edited, and livestreamed a 2-hour school talent show
- Implemented a DNS management server to improve internet latency, block ads, and protect user privacy across a network of more than 200 users
- Developed a course to educate students on fundamental Java programming

RESEARCH EXPERIENCE

Department of Computer Science, UVA, Charlottesville, VA
Undergraduate Researcher

July 2024 - June 2025

- Conducted a meta-review of machine learning inference on Apple Silicon published in ACM Magazine
- Constructed a hardware-level GPU benchmark utility to measure memory usage, power consumption, and compute speed with nanosecond precision
- Collaborated with a team of 4 to efficiently conduct tests on 8 distinct GPU models and meet tight deadlines

Collaborative Robotics Lab, UVA, Charlottesville, VA
Undergraduate Researcher

October 2022 - January 2024

- Created an embodied simulator for generating multimodal referring expression datasets, published in CVPR 2023, and released a dataset of over 100,000 samples
- Designed and developed a novel diffusion model architecture for monocular depth estimation, including a weighted structural loss function 80% more accurate than stereo imaging ground-truth