David Huang

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Education

Masters of Science in Cybersecurity	Dec 2026
Georgia Institute of Technology	
Bachelors of Science in Computer Science	May 2024
University of Florida	GPA: **3.56**

Publications:

Multi-beam Beamforming-based ML Algorithm to Optimize the Routing of Drone Swarms

Certifications:

AWS Certified Solutions Architect - Associate

Skills

Languages:	Java, C++, Python, Javascript, HTML, PHP, Rust, R, C, x86
Frameworks:	FastAPI, Docker, React, Git, mySQL, sqlite, CI/CD, GitHub Actions, Linux, Redis
AWS Services:	EC2, RDS, S3, Lambda, SNS, SQS, Aurora, VPC Configuration
Security Tools:	Splunk, Metasploit, Wireshark, ghidra, MITRE ATT&CK, Yara, x32dbg, Regshot, VMWare

Experience

Site Reliability Engineer Intern   June 2025 - Present
Stealth (Current Employer Not Revealed on Web Version for Privacy Reasons)

- Developing automation tools using Python, Go, Puppet, and Kubernetes to streamline incident response for infrastructure monitoring and application alerts.

Cloud Engineer   May 2024 - Present
Self-Employed (Contract)

- Reviewed and made improvements to the PHP Laravel code base and documentation.
- Compared different database options for resilience and availability. Created an EC2 AMI for server compute instance to automate a restore process, saving 1 hour per restore.
- Scaled cloud architecture in a cost effective manner, leading to cloud savings and a revenue increase of 32%.

Software Developer Intern   Feb. 2024 - May 2024
University of Florida

- Developed Rust GUI simulations to demonstrate 14 different simple and combined steering behaviors for agents/swarms.

Researcher   Jun. 2023 - Aug. 2023
Embry-Riddle Aeronautical University

- Improved the efficiency of a drone routing algorithm using a sparse factorization method. Reduced runtime by 30% on average.
- Developed unit tests to verify that accuracy was consistent with the ground truth. Wrote performance tests.
- Published research paper.

Projects

Incident Response Simulation   Jun. 2024
Splunk, Data Analytics

- Collected datasets and analyzed network, system, and application logs in Splunk to detect security incidents, identify malware artifacts and malicious IPs, and produce a research report.
- Generated Splunk dashboards to visualize security incidents.

Android Malware Classification   Jun. 2024
Python, Pandas, Scikit-learn, ETL

- Performed exploratory data analysis on an dataset of permissions related to benign and malicious Android applications using Pandas profiling.
- Performed basic ETL functions on dataset to prepare for models.
- Compared performance of naive, logistic regression, random forest, and gradient boosting models. Achieved accuracy of 76.8%.