

NOAH LUNBERRY

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EDUCATION

University of Florida

Expected May 2027

B.S. Computer Engineering — GPA 3.88, Dean's List

- Clubs: SASE — Japanese Student Association — Open-Source Club — Club Swim
- Relevant Coursework: Microprocessor Applications — System on Chip Design — Data Structures and Algorithms

Nanyang Technological University (NTU)

Fall 2025

Study Abroad — Digital Logic, Cyber Threat Intelligence, Data Analytics & Mining

EXPERIENCE

Undergraduate Researcher — NTU GRAIL Lab

Aug 2025 – Dec 2025

Nanyang Technological University

- Investigated adversarial vulnerabilities in world-models for autonomous driving; conducted networked simulator experiments to quantify perception & control failures.
- Automated telemetry pipelines for latency and stability testing, reducing measurement variance by **40%**.
- Co-authoring research paper on backdoor attacks in generative driving simulators (release: Nov 2025).

Network Simulation Researcher — WAM Lab

Jan 2026 – Present

Gainesville, FL

- Simulated 5G network mobility in ns-3 (C++) studying O-RAN architectures and handover performance metrics
- Engineered custom wireless topologies with mobile nodes to evaluate signal degradation and 5G handover schemes
- Presented findings weekly and prepared a research poster for the UF Undergraduate Research Symposium

Software & Systems Developer — Satoriwa Trading Co.

Jun 2025 – Aug 2025

Jacksonville, FL

- Integrated live UPS API for rate calculations, cutting billing errors by **30 %**.
- Built backend debugging tools to trace packing/invoice mismatches, reducing manual audits by 50%
- Customized WooCommerce backend (PHP/JS), improving site performance and streamlining operations.

PROJECTS

Play With My Pi! — Ansible, Flask, Nginx, Gunicorn, Cloudflare, Raspberry Pi

Jul 2025 – Present

- Built and deployed a fully automated **Raspberry Pi web server** using **Ansible** for provisioning, configuration, and service orchestration.
- Implemented a **Flask + Gunicorn + Nginx** stack serving a live camera feed and interactive hardware control API; automated redeployments and system health checks via Ansible.
- Optimized routing and caching through **Cloudflare DNS + Edge Cache**, cutting global round-trip latency by **35 %** and sustaining **99.9 % uptime**.
- Scaled to a global audience with **5 000 + visits from 55 + countries** and over **1 900 + live user messages sent**, demonstrating reliable real-time network performance.

Captive-Portal Security Analysis (YouTube) | Python, asyncio, networking

Jul 2025

- Performed an ethical captive-portal security test, focusing on request rate limits and authentication.
- Built a Python script for concurrency and timing analysis (aiohttp), showcased in a YouTube video with **25.1K impressions**, as well as **321K Reddit views**.

TECHNICAL SKILLS

Networking: TCP/IP, Subnetting, VLANs, Routing & Switching, VPNs, Firewalls, DNS, Wireshark, tcpdump

Systems & DevOps: Linux (Debian, Kali, Mint), Ansible, Docker, Nginx, Gunicorn, systemd, SSH, cron, CI/CD

Programming & Scripting: Python, Bash, C++, Go, JavaScript, Verilog HDL

Cloud & Infrastructure: Cloudflare, Linode, Raspberry Pi Cluster, Load Balancing, Monitoring, Logging

Tools & Frameworks: Flask, Node.js, Git, Tmux, Vim, MATLAB

Other: Fluent in English & Japanese