

Romulus Khalil

romuluskhalil3@gmail.com | romuluskhalil.me | linkedin.com/in/romulus-khalil | github.com/rkhalil38

EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science

Planned Masters in Computing Systems

Atlanta, GA

Aug. 2023 – May 2027

Relevant Coursework: Computer Organization and Programming, Systems and Networks

EXPERIENCE

Device Driver Engineer

Aug. 2025 – Present

Georgia Tech VIP: Configurable Computing/Embedded Systems Team

Atlanta, GA

- Implementing a custom GPIO Linux kernel driver for Xilinx Zynq-7000 SoC
- Collaborating with cross-disciplinary team to integrate driver into a secure voting machine prototype
- Contributing to the security, efficiency, and reliability of Georgia Tech elections

Software Engineering Intern

May 2025 – Aug. 2025

Azalea Health

Atlanta, GA

- Implemented Azi, an AI Assistant for Azalea Health's hospital EHR product
- Connected Azi to both Azalea's FHIR and ColdFusion APIs, allowing its context to encompass the entire EHR
- Reduced hallucinations by implementing an agentic approach, spawning one AI agent per patient chart
- Cut time it took users to retrieve medical information by 50%

Team Lead - Agile Project

Aug. 2024 – Dec. 2024

CS 2340

Atlanta, GA

- Led a team of 4 in building 2 full-stack apps for course deliverables
- Served as technical lead that answered codebase questions and guided new feature efforts
- Coordinated and instructed bootcamps for team members who lacked familiarity with the tech stack

Website Developer

Nov. 2023 – Jan. 2024

Freelance

Valdosta, GA

- Designed and developed websites for local businesses in my hometown
- Collaborated with business owners/staff to identify key features and designs that best represent their brand
- Ensured a comfortable user experience on a variety of devices through responsive UI design

PROJECTS

The Home Server Project | cribothy.us | *Debian, Nginx, Docker*

June 2025 – Present

- Self-hosting over 20 web services that serve friends and family
- Containerized each service with Docker and routed traffic via Nginx reverse proxy
- Implemented monitoring system that sends push notifications when services are down

GT Lost and Found | gt-lost-and-found.org | *Typescript, NextJS*

Feb. 2024 – Present

- Developed a comprehensive Lost and Found service for Georgia Tech students/staff
- Used WebSockets for real-time updates between the frontend and database
- Implemented OAuth 2.0 protocols to authenticate users, ensuring secure access and data integrity

azaleaneuroandspine.com | azaleaneuroandspine.com | *Typescript, NextJS*

Nov. 2023 – Jan. 2024

- Developed website for a local neurosurgery clinic
- Utilized modern web frameworks to create a visually appealing and user-friendly experience
- Implemented email scheduling system, allowing users to easily book online appointments

TECHNICAL SKILLS

Languages: C, Rust, Java, Python, Typescript, PHP

Web/Frameworks: Next.js, Symfony, Nginx, Apache

Tools/DevOps: Docker, Git, Linux (RHEL, Debian, Fedora), AWS

Other: Tokio, Beautiful Soup, OAuth 2.0, WebSockets