

Robert Cook

Application Developer

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<https://github.com/LucientZ>

Skills

Programming/Markup Languages (Proficient)

- Python • Javascript/Typescript
- C/C++ • Java • SQL • HTML
- CSS • Markdown • JSX

Programming/Markup Languages (Familiar)

- x86-64 assembly • R
- DreamBerd • LaTeX • Rust

Frameworks/Systems

- React • Express JS • Flask
- discord.py • OpenGL • Firebase
- pwntools • PostgreSQL

Software Proficiency

- Git • VSCode • Node • Docker
- gdb • Vim • tmux • Bash
- Windows • Linux • Mac
- Microsoft Office

2D/3D Graphics

Digital Forensics

Teaching and Leadership

Education

Texas A&M University (2021-2025)

- Computer Science Major
- Cyber Security Minor

Events

Space Heroes CTF - 2024

- Secured 12th place out of 614 teams

TAMU CTF - 2024

TamuHack - 2022/2023

Academic Projects

gRPC Social Networking Service

- Utilized **Google's remote procedure call API** to create a simple fault-tolerant social networking service
- Synchronizes data among 3 server-clusters

Unix-Style Operating System

- Wrote low-level **C++** that implements 5 major components involved in an Operating System including page tables and multi-threading

Point of Sale system

- Used **Next.js** and **PostgreSQL** to host a proof of concept point of sale system application
- Heavy focus on both user accessibility and code maintainability

Personal/Organization Projects

Texas A&M Society of Hispanic Professional Engineers App

- Collaborated with a team of developers to create a mobile application
- Used **React Native** and **Firebase** to help users interact with the various systems in the organization

Discord PyBot

- Worked with Discord's **discord.py** API to create a bot that interacts with users
- Used in 5+ servers with 300+ users

YouTube Frame Ripper

- Downloads YouTube videos and parses the MPEG data to create an unicode text representation of the video

Work/Volunteer Experience

Texas A&M University - Student Technician (TA)

- Hosted lab sections for a programming class
- Aided students on assignments to ensure their success
- Assisted professors with grading, test proctoring, and anything else that needed to be accomplished

Howdy Hack Mentor

- Volunteered to mentor for a 24-hour hackathon
- Assisted multiple teams in realizing their projects for the competition
- Helped others understand various concepts in HTML, CSS, and JavaScript, and Python

The Home Depot - Online Order Fulfillment Associate

- Worked with a team to ensure online orders were fulfilled in both a timely and organized manner.