

First Last

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Education

Random University

2020 - 2024

- Bachelor of Science, Computer Science • College of Science and Technology (CST) • Honors Program
- President's Scholar: Covers XXXX-Tuition (\$XX,XXX/yr) • CST Science Scholar
- Courses: Introduction to Academic Computer Science, Honors Calculus I, Mathematical Concepts in Computing I Honors

Random High School (4.65 Weighted GPA)

2016 - 2020

- Academic Excellence in Computer Science – Xerox Award for Innovation and Information Technology

Experience

Department of Energy Laboratory (DOE) Intern (Fall 2019 - Winter 2019)

- Learned to design an electronic circuit for a device called a Langmuir probe, an instrument used to measure properties like density and temperature of plasmas

Projects

TI-Authenticator: 2FA With a Calculator (C, HMAC, SHA1, OTP)

- Provides rolling passcodes similar to Google Authenticator except on a graphing calculator
- Implements One-Time Password (OTP) algorithms for the TI-84+ CE graphing calculator based on RFC 4226 (HOTP) and RFC 6238 (TOTP)

Calculator Controlled RC Boat (C++, TI-BASIC, Arduino)

- Allows a graphing calculator to wirelessly control a boat
- Utilizes an Arduino and RF wireless modules with a C++ library called ArTICL to interface with a TI-84+ graphing calculator

College Rejection Simulator (HTML, CSS, Javascript, Bootstrap, Netlify)

- Created a college rejection simulator with fake decision letters and college login portals to help high school seniors mentally prepare for their rejection
- Received 20,000 views within the first few days of the release
- Utilized my previous work from <https://decisionletters.netlify.app/brown>

Wireless LED Marching Band Lights (C++, Arduino, Group Project)

- Created multi-coloured, music-synchronized lights for the drums and other instruments
- Redesigned an existing prototype by using more cost effective circuitry in order to make the project feasible and fundable by the school

Skills

Programming Languages: C, C++, Python/Flask, Javascript, x86 ASM

Markup Languages: L^AT_EX, Markdown, HTML, CSS

Other: Linux, Bash, Git/Github, Tmux, (Neo)vim, Arduino, Ghidra, Binary Exploitation

Awards/Activities

1st Place: CTF Computer Security Competition

4th Place: CTF 2020 Computer Security Competition

Member: Random University Association for Computing Machinery (ACM)