DENNIS R. CRAWFORD III

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EDUCATION

Georgia Institute of Technology ***Atlanta, GA*** *Fall 2018 - Spring 2022*
Candidate for B.S. in Computer Engineering and Minor in Computer Science *GPA: 3.48/4.00*

Relevant Coursework: OOP, Data Structures/Algorithms, HW/SW Embedded Systems, Digital Design Lab, Computer Architecture/Energy Systems, Computer Graphics, Cloud Computing, Networking, Computer Animation, Video Game Design, Computer Audio, Computer Security, Reverse Malware Engineering

SKILLS

Programming: Java, C#, Python, C / C++, Javascript, Kotlin, VHDL
Hardware: Breadboard Prototyping, MyDAQ, Cyclone II FPGA, Arduino
Software: Git, NI LabView, Quartus II, Unix, Amazon Web Services, Flask, WebGL, GLSL

EXPERIENCE

BlueFletch *Software Engineer Intern*
Email Client (EMS Team) *Summer 2021*

- Independently built a client requested email application from conception to execution allowing for Single Sign-On on Zebra Android Devices with consulation from senior engineers
- Utilized JavaMail API to perform IMAP requests to fetch emails from server
- Developed UI to read emails in list, view individual messages, and reply
- Provided SSO authentication utilizing OAuth2 and proprietary libraries for authentication

Enterprise Mobile Security Team (EMS) *Summer 2020*

- Worked on a team to develop solutions for services on Zebra Android devices using Agile development practices
- Developed a secure notification service to provide a method to whitelist/blacklist incoming notifications
- Updated multiple application codebases to write logging information to a file on devices
- Developed a service to upload logs remotely from applications onto GCP using API requests and Android intents

PROJECTS / LEADERSHIP

Simple Ray Tracer *Solo Class Project*

- Ray Tracer written using Processing p5.js (WebGL)
- Implemented ray tracing of spheres and disks, lighting, hard and soft shadows, and anti-aliasing

Gait Speed Analyzer *Group Class Project*

- Worked on a team as hardware lead to develop a system on an Arduino uno wifi to measure gait speed in a home environment over the course of a semester
- Prototyped software for Arduino device to capture movement using ToF sensor and post results to an online visualization tool
- Wrote a comprehensive report detailing project methodologies and process as well as presented results to a class of over 50 students

Battlebots Teams *Robojackets Battlebots Projects/Leadership*

- Mentor for 3 pound battlebot Perri overseeing a team of 9 new members and assisted them during competition
- Bot project lead for 30 pound battlebot Maorii overseeing team of 8 engineers
- Oversaw iterative design and machining of bots over a year long period for each bot

Fun Fact: I am an Eagle Scout