

Yuqi He

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Objective

I am passionate about computers since primary school. This passion and curiosity lead me to discover what is actually happening inside a computer and apply what I know into solving practical problems. My career goal is to learn from my experience and my interaction with other people, and leave a positive impact in this world through my work. I am currently seeking a software or hardware engineering internship in 2020.

Education

Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Computer Engineering

January 2020 – Present

Expected Graduation, May 2022

University of California, San Diego | La Jolla, CA

Transfer with 92(Quarterly) Credit Hours, GPA 3.78

September 2018 – December 2019

Skills

Programming: Java, Python, C, C#, C++, Ruby, JavaScript, HTML, CSS, Objective-C, assembly language (ARM, MIPS, LC-3)

Frameworks: Django, Flask, MongoDB, SQL, Ajax, JQuery, Node.js, Vue.js, React, JUnit

Platforms: Linux (Ubuntu, CentOS, Debian)

Hardware: Raspberry Pi, ARM mbed microcontroller, oscilloscope, logic analyzer

Software: Android Studio, Altera Quartus II, GitHub

Professional Organizations: Georgia Tech HyperJackets, Electrical and Computer Engineering Ambassadors

Communication: Design proposals, technical reports, instruction manuals, presentations (large and small audiences)

Languages: English (fluent), Chinese (native)

Experience

Face++ | Beijing, China

June – August 2018

Software Engineering Internship

Face++ is a company focusing on facial recognition and human body recognition

- Studied the latest algorithm in facial recognition and upgraded the infrastructure to spawn bug reports, test new features and detect security vulnerabilities.

Tencent | Palo Alto, CA

May – August 2019

Software Engineering Internship

- Worked on back-end development team. Developing and upgrading internal tools and algorithms in data storage for employees and customers.
- Developed a script to notify warnings, errors, pull and push requests in internal repos.

Projects

Discord bot

Summer 2017 – Present

All of my friends in high school use Discord as the primary way to chat online or chat during playing video games, and chat channels are usually unorganized. This long-term project aims to organize Discord server and add other interesting features.

- Added simple user commands; organized all channels automatically; created message when leaving or entering channel; deployed on Heroku.
- Added voice commands through built in API, 24-hour chat log and command log, and exception handling and logging.
- Integrated chat bot with machine learning, and added Google and Spotify feature in voice command and error notification through email.

Activities

Cryptographic Hash Function Vulnerability | Atlanta, GA

Jan 2020 – Present

Undergraduate research guided by Prof. Vincent Mooney

- Understand Non Linear Multiple Input Signature Register (NLMSIR) collisions and use Raspberry Pi to test NLMSIR collisions and its probability.
- Test NLMSIR collisions under conditions including subtle input bit changes and bit flip.