

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.

Education

Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Computer Engineering, GPA 3.93

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, MongoDB, SQL, Ajax, JQuery, Node.js, Vue.js, React, JUnit

Platforms: Linux (Ubuntu, CentOS, Debian), xv6

Hardware: Raspberry Pi, ARM mbed microcontroller, FPGA, 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 (remote)/ Beijing, China

May – August 2019

Software Engineering Internship

- Worked on the 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

This long-term project aims to organize large Discord server and add other interesting features.

- Simple user commands; organize all channels automatically; create message when leaving or entering channel; deploy on Heroku.
- Integrate chat bot with machine learning, add Google and Spotify feature in voice command, and add error notification through email.

League of Legends stats lookup

Feb 2020 – Present

- Easy to look up account stats and detailed player performance analysis.
- Able to view profiles of currently in-game players.

Activities

Cryptographic Hash Function Vulnerability | Atlanta, GA

Jan 2020 – May 2020

Undergraduate research guided by Prof. Vincent Mooney

- Worked on Non-Linear Multiple Input Signature Register (NLMISR) collisions and used Raspberry Pi to test NLMISR collisions and its probability.