

Yuqi He

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Objective

Third year Computer Engineering student with specializing in low-level programming in C/C++, computer architecture, and operating system. Seeking summer 2021 internship in Software Engineering.

Education

Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Computer Engineering, GPA 3.93/4.00

January 2020 – Present

Expected Graduation, May 2022

University of California, San Diego | La Jolla, CA

Transfer with 92(Quarterly) Credit Hours, GPA 3.78/4.00

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, FPGAs, 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 startup company focusing on facial recognition and human body recognition.

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

Tencent | Remote

May – August 2019

Software Engineering Internship

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

Projects

Discord bot

Summer 2017 – Sep 2019

This long-term project aims to organize large Discord server and expands existing API features.

- Created simple user commands, organized all channels automatically every 24 hours, and created simple messages when there are server updates and changes.
- Integrated chat bot with machine learning, added Google and Spotify features in voice command, and added error notification through email.

League of Legends stats lookup

Feb 2020 – Present

- Listed account stats and detailed player performance analysis with customizable background image.
- Showed profiles of currently in-game players with rank placements.

Activities

Cryptographic Hash Function Vulnerability | Atlanta, GA

Jan 2020 – May 2020

Undergraduate research (VIP) 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.