Charlie Yuan Zhou

Computer Science

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SUMMARY

Looking for software engineering jobs. Interested in and experienced with web and mobile app development. Passionate about programming and coding. Be able to accomplish full stack projects. Good at self-learning and problem solving. Capable of working under pressure and flexible to adapt in an evolving environment.

EDUCATION

Cornell University   Ithaca, NY
 Computer Science Master of Engineering Program   Sept 2017 –

University of Toronto
 B.Sc. (a) Computer Science Specialist focus in Web and Internet Technologies   Toronto, ON, Canada
     (b) Mathematics Minor   Sept 2014 – June 2017
 GPA: 3.85/4.00. Specialist requirement & CS courses only: 3.90/4.00.
 Honors: Admission Scholarship ($5000); Dean's List 2014, 2015, 2016;
     In-course Scholarship 2014-2015 ($1250), 2015-2016 ($1500)

EXPERIENCE

University of Toronto Department of Computer Science   Toronto, ON, Canada
 Teaching Assistant for CSC165   January 2017 – April 2017
 CSC165: Mathematical Expression and Reasoning for Computer Science.
 Inspecting and scoring assignments and term tests.

                                                                         Sept 2015 – January 2017
 UTop Tutor
 A student organization that offers tutoring service on computer science and math
 courses. Developed a website for them as group leader.

SKILLS

Languages: Python, C, Java with 7 years of experience; worked with PHP, HTML/CSS, JavaScript, Swift, etc.
Technologies: **Competent in** databases, computer networks and networking systems, AI, machine learning;
         Experienced with Linux, Node.js, Android and iOS app development.

PROJECTS

UTop Tutor Website (utoptutor.com)
 (Full stack project) A commercial website for UTop Tutor. In the first version, backend was built with Apache, written in PHP with MySQL database. Later changed to Node.js (RESTful) with MongoDB. Bootstrap is used in the frontend. Recently NGINX was added for extensibility.

Web API Development
 (Full stack project) A RESTful Node.js web application. Using public APIs provided by bilibili.com, a video website, to provide a more user-friendly UI to help user collect and analyze data. Currently running on bili.utoptutor.com. More features are being added.

Easy File Transfer
 A web application built with Angular II. Users logged in can view others online and choose files to transfer with each other. P2P technology was used. I mainly handled with algorithms related to UI display.

INTERESTS & OTHER ACHIEVEMENTS

- Writing programs (usually tools or mini-games) when coming up with ideas, e.g. rewrote the Microsoft Minesweeper in C and Java, coset calculator (group theory) in Python, rewrote iPhone calculator in Swift.
- Solving mathematical computer programming problems on Euler's Project (projecteuler.net).
- Directed the short movie *Ruby* while in high school. Received Award for Best Special Effects and Award for Annual Movies in the 6th movie festival of our school.