Tiffany (Qianwen) Zheng

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tiffany-zheng.com

EDUCATION

Williams College, Williamstown, MA

*BA in Computer Science and Mathematics***,** expected 2020 **Cumulative GPA***: 3.73/4.00 (Dean's List)*

Relevant Coursework: Data Structures, Computer Organization, Principles of Programming Languages, Human-Computer Interaction, Multivariable Calculus, Linear Algebra, Discrete Mathematics, Statistics and Data Analysis, Computer Graphics, Mobile Software Development, Theory of Computing, Graph Theory, Algorithms, Probability.

Skills: Java, Python, C, C++, Kotlin, SQL, HTML, CSS, Javascript, React JS, Bash, Git, Adobe Illustrator.

Foreign Languages: Spanish (Intermediate), Mandarin (Intermediate, spoken), Cantonese (Intermediate, spoken).

WORK EXPERIENCE

Software Engineering Intern, *TripAdvisor* June – August 2019

- Full stack web development on the Restaurants B2C Web team, collaborating with engineers, designers and PMs.
- Worked on front-end features on the restaurant webpages that resulted in commerce and growth wins (helped increase bookings by 5.1%) such as optimizing their reservation form and improving the restaurant discovery experience.
- Developed a Java microservice to determine which restaurant commerce offers to display on the site and wrote corresponding offline Jenkins jobs to populate the restaurants database.

Software Engineering Intern, *Institute for Human & Machine Cognition (Robotics Division)* May – August 2018

- Built a website for their open source software used in their own humanoid and quadruped robots.
- Used tools such as Javascript, Bash, Gradle, and Bamboo to implement an automated documentation system that allows for smooth writing and publishing, and automatically updates code snippets in the documentation webpages with recent changes to corresponding source code.

Teaching Assistant, *Computer Science Department, Williams College* Spring 2017 – Present

- For introductory computer science courses with Java and a Data Structures course: Instruct students in programming assignments and offer academic support outside of class hours.

Student Technology Consultant, *Office for Information Technology, Williams College* August 2017 – Present

- Assist students, staff, and faculty in resolving computer, printer, and network related issues.

Research Assistant, *Computer Science Department, Williams College (Advisor: Tom Murtagh)* June-August 2017

- Worked with Prof. Tom Murtagh to develop a log-structured file system for NAND memory using C.
- Implemented key functions and infrastructure including a library with a virtual NAND memory and a tool to initialize the file system.

SELECTED LEADERSHIP ACTIVITIES

President ('19 – '20), *Underrepresented Identities in Computer Science (UnICS)* Spring 2017 - Present

- Raise awareness about minority students' experiences in the department, work with faculty to improve diversity and inclusion, organize weekly dinners, workshops, a peer-mentoring program, and campus events.

International Orientation Leader (IOL), *Williams College* Summer 2017

- Worked with other IOLs to plan and execute an orientation program for incoming international students and served as a mentor. Voiced interests of international first-years who similarly identified as first-generation students.

SELECTED PROJECTS

See tiffany-zheng.com for more details about projects

Assembly Interpreter: Virtual assembly interpreter using an Intel x86-64 based instruction set to store, decode, and execute instructions from programs written in an ARM based assembly language.

Chrome *'My Tabs'* Extension: Allows users to load browser windows with different custom tab collections in one click.

HCI Learning in the Wild Project: Semester-long group project to design an app to guide users in effective altruism that involved all phases of the UX design lifecycle such as analyzing user data, refining design concepts, and prototyping.

Pocket Travel Android App: An application to help users organize their travel plans, built with Kotlin.