Qianwen (Tiffany) Zheng

3018 Paresky Ctr., Williamstown, MA 01267 * qz3@williams.edu * (413) 346-7355

tiffany-zheng.com

EDUCATION

Williams College, Williamstown, MA

*BA in Computer Science and Mathematics***,** expected 2020 Cumulative GPA: 3.75/4.00 *(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*, Current: Graph Theory, Algorithms, Probability, Abstract Algebra.*

Skills: Java, Python, C, C++, Kotlin, SQLite, HTML, CSS, Javascript, R, Bash, Git, Adobe Illustrator.

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

WORK EXPERIENCE

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 and robotics labs worldwide. 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 – Spring 2018

For introductory computer science courses with Java (Digital Communication & Computation; Objects, Events, and Graphics): 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.

RELEVANT LEADERSHIP ACTIVITIES

Board Member, *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.

Tech-Connect Mentor, *Institute for Human & Machine Cognition* July – August 2018

Co-taught Java classes to high school students in Pensacola, FL to introduce them to programming.

Advisor, *Google IgniteCS* Spring 2017 – Fall 2018

Provide mentorship and teach coding to local high school students.

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

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.

Wordoku: Used test-driven development to implement a Sudoku-like puzzle in Java.

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.

See tiffany-zheng.com for more details about projects