

Peter Zhao

pjz1@williams.edu | 703-889-0678 | Website: pzhao1799.github.io
2810 Morada Ct, Vienna, VA

EDUCATION

Williams College

B.A. Computer Science, B.A. Mathematics. GPA: 3.77/4.00

Williamstown, MA

Expected May 2021

Relevant Coursework: Data Structures, Algorithm Analysis, Computer Architecture, Computational Linear Algebra, Statistics and Data Analysis, Abstract Algebra, Real Analysis, Discrete Mathematics, Probability, Graph Theory

Thomas Jefferson High School for Science and Technology

Advanced Diploma. GPA: 4.23

Alexandria, VA

Aug 2013 - May 2017

Harvard Business School, HBX

Credentials of Readiness: Business Analytics, Economics for Managers, Financial Accounting

Cambridge, MA

June 2018 - August 2018

TECHNICAL SKILLS

- **Languages:** Python, C, JavaScript/TypeScript, Clojure, Go, Haskell, Java, R, HTML
- **Libraries:** Numpy, Matplotlib, SciPy, Flask, Mocha, Chai, React/React Native
- **Technologies:** Unix, GitHub, \LaTeX

EXPERIENCE

Williams College Computer Science

Research Intern, Professor Daniel Barowy

Williamstown, MA

June 2019 - Present

- **SWELL:** Researched a self-repairing parser combinator library using TypeScript that can detect syntactic parsing errors, determine a possible fix using minimum edit distance, and return an easy-to-read error message based on error stream
- Created loops in the SWELL programming language and constructed locks on direct manipulation if behavior was ambiguous.
- Implemented a lesson constructor to make new lessons in the future

Williams College Psychology

Research Assistant, Professor Safa Zaki

Williamstown, MA

January 2019 - Present

- Implemented modular experiment development procedure by implementing the jsPsych library and organized project files using GitHub
- Conducted research in categorization tasks to determine if blocking or interleaving is better for learning specific elements
- Developed and ran Amazon Mechanical Turk experiments, optimizing on experimental costs and data precision

iD Tech Camps

Instructor

College Park, MD

May 2018 - Aug 2018

- Taught courses in robotics (VEX and VEX IQ) and computer science (Python and RobotC) to high school students of varying skill levels, receiving 90% satisfaction rating across all weeks taught

PROJECTS

- **Rendezvous:** A planning tool for determining interesting activities to do with friends
 - Utilizes data from Yelp, Google, and Weather to determine possible trips given time and distance parameters (Work in Progress)

VOLUNTEER EXPERIENCE

Reboot For Youth

Chief Technology Officer

Fairfax, VA

Sept 2014 - May 2017

- Refurbished over 300 computers to donate to low-income students in need to technology for schoolwork
- Partnered with Lenovo, CNN, Nickelodeon, WeddingWire and Keepod for fundraising efforts

Growth and Inspiration through Volunteering and Education (GIVE)

Center Manager

Springfield, VA

September 2013 - June 2017

- Managed Richard Byrd Branch of the GIVE tutoring program, helping local elementary students prepare for state exams

ADDITIONAL EXPERIENCE & ACHIEVEMENTS

- **Teaching Assistant** for Algorithm Analysis: Fall 2019
- **Teaching Assistant** for Linear Algebra: Fall 2018
- **Tutor** for Data Structures & Algorithms and Linear Algebra: Spring 2019
- **Treasurer** of All Campus Entertainment at Williams College: 2019-2020
- **President** of the Chinese American Student Association: 2018-2019
- **President** of the Williams Questbridge Chapter: 2018-2019
- Placed **4th** at Google Tech Challenge: Cambridge 2018
- Placed **1st** in Creative Category at HackDartmouth 2017
- Jack Kent Cooke Scholar and Questbridge Scholar
- Conversationally fluent in Chinese and Shanghainese