Peter Zhao

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Education

Williams College — Williamstown, MA
B.A. Computer Science, B.A. Mathematics. GPA: 3.77/4.00 — *Expected June 2021*
Relevant Coursework: Data Structures, Algorithm Analysis, Computer Architecture, Computational Linear Algebra, Statistics and Data Analysis, Probability, Graph Theory, Abstract Algebra, Real Analysis, Algorithmic Game Theory, Machine Learning

Acquincum Institute for Technology — Budapest, Hungary
Study Abroad in Budapest — *Jan 2020 - May 2020*
Relevant Coursework: Combinatorial Optimization, Theory of Computing, Networks and Dynamics, Semantic & Declarative Technologies

Thomas Jefferson High School for Science and Technology — Alexandria, VA
Advanced Diploma. GPA: 4.23 — *Aug 2013 - May 2017*

Harvard Business School, HBX — Cambridge, MA
Credentials of Readiness: Business Analytics, Economics for Managers, Financial Accounting — *June 2018 - August 2018*

Technical Skills

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

Experience

Williams College Computer Science — Williamstown, MA
Research Intern, Professor Daniel Barowy — *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 looping structures in the SWELL programming language and constructed locks on direct manipulation if behavior was ambiguous. Implemented a lesson constructor to make lesson development more user-friendly

Williams College Psychology — Williamstown, MA
Research Assistant, Professor Safa Zaki — *Janurary 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 — College Park, MD
Instructor — *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 — Fairfax, VA
Chief Technology Officer — *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) — Springfield, VA
Center Manager — *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