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: Algorithm Analysis, Computer Architecture, Statistics & Data Analysis, Probability, Graph Theory, Abstract Algebra, Real Analysis, Theory of Computing, Networks and Dynamics, Combinatorial Optimization, Algorithmic Game Theory, Machine Learning

Study Abroad: Acquincum Institute for Technology in Budapest - Spring 2021

Thomas Jefferson High School for Science and Technology

Alexandria, VA Aug 2013 - May 2017

Advanced Diploma. GPA: 4.23

Harvard Business School, HBX

Aug 2013 - May 2017

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

Cambridge, MA June 2018 - Aug 2018

TECHNICAL SKILLS

• Languages: Python, C, C++, Java, JavaScript/TypeScript, Clojure, Go, R, HTML, SQL, Prolog

Technologies: Unix, GitHub, LTFX

• Libraries: Numpy, Matplotlib, SciPy, NetworkX, Scikit-Learn, Pandas, Django, React

EXPERIENCE

J.P. Morgan Chicago, IL

Software Engineering Intern

June 2020 - Aug 2020

 Developed social media tools for local nonprofit to boost youth engagement via self-learning social media bots that automatically determined content and sentiment. Increased engagement and click rate by 80% for target group

Williams College Computer Science

Williamstown, MA

Research Intern, Professor Daniel Barowy

June 2019 - Dec 2019

- 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

Jan 2019 - Dec 2019

- Implemented modular experiment development procedure by implementing the jsPsych library and organized workflow using GitHub
 Conducted research in categorization tasks via Amazon Turk to determine if blocking or interleaving is better for learning unique
- Conducted research in categorization tasks via Amazon Turk to determine if blocking or interleaving is better for learning unique individual elements

PROJECTS

- GoTED: A Go implementation of the Zhang-Shaha Algorithm, which computes the edit distance between two trees
- C++uckoo: A C++ implementation of a Cuckoo Filter using a variety of hashing techniques
- Firestone: A Heathstone clone developed in Clojure to focus on functional programming software design paradigms
- Community Detection: Implementation and testing of the Girvan-Newman Algorithm in Python for detecting communities in networks

VOLUNTEER EXPERIENCE

Microsoft TEALS

Volunteer July 2020 - Present

 Supported teachers in teaching and developing a fundamental computer science curriculum for high school students to increase access to a tech-focused education

Reboot For Youth

Fairfax, VA

Sept 2014 - May 2017

Chief Technology Officer

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

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: 2019-2021
- 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