Hao (Holly) Wu

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EDUCATION

Yale University New Haven, Connecticut   **Aug. 2018 - May 2019**
Master of Science in Computer Science; GPA: 3.75/4
- Selected Coursework: Databases, Natural Language Processing, Human-Computer Interaction

Vassar College Poughkeepsie, New York   **Aug. 2014 - May 2017**
Bachelor of Arts in Computer Science; Quantitative Economics & Mathematics Minors; GPA: 3.81/4
- Graduated with General Honor (Top 20%) and Department Honor
- Selected Coursework: Data Structures and Algorithms, Operating System, Compilers, Artificial Intelligence, Computer Organization, Statistics, Linear Algebra, Econometrics

WORK EXPERIENCE

Software Engineer, Oracle Corporation Redwood City   **July 2019 – Current**
- Enhanced and implemented 30+ new features in Audit Vault Command Line Interface; delivered software patches per customer request
- Back-end engineered on Oracle Database security software using Java and PL/SQL; focus on developing and troubleshooting command line interface, secured target management, Information Lifecycle Management, reports generation and more appliance components
- Improved source code security by continuously fixing 100+ vulnerabilities in SQL Injection, Path Manipulation, XML External Entities Injection, Password Management and more categories using static code analyzer tools

Software Engineer Intern, Alibaba Group Beijing   **April 2018 – Aug. 2019**
- Developed and launched a data visualization web app of mobile analytics, Umeng Compass
- Middle-end engineered multiple projects using Java Web tools and Spring framework, including an access control feature to Open API, and a web platform for SDK updates; managed projects across teams

Student Teaching Assistant, Vassar College Computer Science Department **Sept. 2015 – May 2017**
- Facilitated classes and assisted students individually with 20+ programming assignments
- Courseworks:CS 101(using Racket, Scheme), Computer Organization(using C, Assembly languages)

SKIILLS

Programming Languages: Java, C++, Python, C, Haskell, Scheme, Racket
Tools: SQL, Maven, Git, Bash, x86/x64 Assembly, Spring Boot, Android
Data Analysis: R, Stata **Multimedia Software:** Photoshop, InDesign, Premiere, Final Cut Pro

PROJECTS

MyWalkPet, Android
- Independently created an app incorporating a virtual pet and a step counter (github.com/hwhollywu/MyWalkPet); Users gain coins by reaching daily walking goals and use coins to buy virtual pet supplies.

Gomoku, Lisp
- Designed the classic board game Gomoku(or Five in a Row) in Lisp (github.com/hwhollywu/gomoku); Applied and compared alpha-beta pruning and Monte Carlo tree search algorithms to the game

TimeIsMoney, R, Python
- Cooperatively developed a data science project by applying data wrangling, machine learning and visualization methodologies to Expedia datasets; won Best Data Visualization at Vassar DataFest 2017

HONORS AND ACTIVITIES

Google igniteCS Program Student Leader Vassar College   **May 2017**
Initiated a local mentorship program on interactive Arduino projects for 9 mentors and 15 high schoolers.
2016 Grace Hopper Scholar Anita Borg Institute   **Oct. 2016**
Received the merit-based grant to attend the world's largest technical conference for women in computing.
Vassar Haiti Project Vice President of Publicity   **Sept. 2015 - May 2017**
Actively organized on-campus fundraising events; Volunteered in Haiti; Managed organization websites