

Haohang Xu

haohangxu.github.io

Experience

- 2017–present **Software Developer**, New York, NY.
- 2016 **Software Engineering Intern**, *Facebook*, Menlo Park, CA.
- Implemented quickcam functionality for Facebook.com chat tabs and Messenger.com as a part of the Messenger Core Engagement team, increasing photo and video sends in initial testing.
- 2015 **Technology Intern**, *Jane Street Capital*, New York, NY.
- Added support for archived code in features of Jane Street's code review system, written in OCaml.
 - Implemented a permissions system with support for requests using a simplified LF logical framework.
- 2014–2017 **Computer Science TA and Peer Tutor**, *Yale Computer Science Department*, New Haven, CT.
- Served on the course staff of Intro to Computing and Programming, Intro to Computer Science, and Data Structures and Programming Techniques.
 - Taught sections, held office hours, and participated in weekly teaching team meetings.
- 2014 **Math Grader**, *Yale Mathematics Department*, New Haven, CT.
- Graded assignments for Discrete Math, providing feedback to professor on common difficulties.
- 2014–2015 **Software Engineering Intern**, *KVH Industries Inc.*, Middletown, RI.
- Developed live inertial measurement unit northfinding and magnetometer field calibration algorithms in C.
 - Improved accuracy and reduced execution time of previous live implementations from minutes to seconds.
 - Created a GUI in C# to perform live northfinding calculations with 2D and 3D visualizations of results.
- 2014–2017 **Student Tech Coordinator**, *Yale Student Technology Collaborative*, *Yale ITS*, New Haven, CT.
- Managed a team of Student Techs to provide client-facing troubleshooting as well as hardware support.
- 2013 **Founder and Program Leader**, *Girls Leading in Technology to Change Humanity (GLiTCH)*.
- Conceptualized, founded, and organized the first incarnation of GLiTCH, a computer science camp for middle-school girls which is taught entirely by high-school girls.
 - Mentored and taught over 40 girls using the animated programming software, Looking Glass.

Technical skills

- Proficient OCaml, Linux, Python, Emacs
- Basic Java, C#, JavaScript, Rust, Haskell, L^AT_EX, SQL

Education

- 2013–2017 **Yale University**, *New Haven, CT*.
- B.S. in Computer Science and Mathematics; Cumulative GPA: 3.9; Magna Cum Laude

Honors and Awards

- 2014 **National Center for Women and Information Technology**.
- 2014 NCWIT Summit Aspirations Ambassador
- 2013 **National Center for Women and Information Technology**.
- Aspirations in Computing Award winner
 - AspireIT Grant pilot program winner

Miscellaneous

- 2013–2017 **Yale Davenport Pops Orchestra**, *Head Arranger, Concertmaster, Orchestra Manager*.
- Mentored student arrangers through organizing workshops and providing one-on-one feedback.
 - Was responsible for shaping the group's musical vision and ensuring the quality of the orchestra repertoire.
 - Coordinated personnel and logistics and worked towards increasing the orchestra's online multimedia presence as the Orchestra Manager.