Jesse Zhang

github: x-jesse-zhang   email: jesse.zhang8759@gmail.com

WORK EXPERIENCE

Amazon - *Software Dev Engineer*   Sept. 2019 - Now

Alexa Connect Kit

- Lead efforts on creating a firmware-exclusive automated testing environment
- Collaborated across teams and resolved critical product launch blockers
- Designed and implemented device lifecycle management for Alexa Connect Kit device supporting Matter framework
- Developed other Alexa Connect Kit features in low-memory hardware environment

Amazon Halo

- Designed and implemented an online data collection mechanism to improve product accuracy based on customer feedback
- Developed and deployed to production core features for Halo's Tone domain on iOS
- Implemented on-demand Bluetooth connectivity for the Halo app on iOS
- Worked between domains to investigate and improve the battery life for the Halo Band to address top post-launch customer concerns
- Proposed and developed a scalable approach to phone-accessory interaction for the Halo app to accomodate for future domain expansions
- Lead operational excellence initiatives for improving Tone responsiveness
- Advised leadership on critical Tone privacy concerns pre-launch
- Mentored intern to develop automated machine learning model test pipeline

Yahoo - *Software Engineer I*   Aug. 2017 - Sept. 2019

- Worked on test and build systems for Apache Traffic Server (ATS) using the Reusable Gold Testing System framework (AuTest) and BuildBot
- Developed new features and community requests for AuTest
- Created a set of automatic traffic replay tools for ATS to reproduce captured production traffic in an isolated environment for reliability testing

Apple - *Software Engineering Intern*   Summer 2016

- Developed iOS app with SAP integration for automated store inventory management
- Designed SAP backend service for the inventory pipeline

Fulcrum GT – *Software Engineering Intern*   Summer 2015

- Pitched, designed, implemented, and launched Epoch, a SAP-backed legal time entry solution, at ILTA 2015

PUBLICATIONS Kim, M., **Zhang, X.**, Milenkovic, O. (2016). MetaCRAM: an integrated pipeline for metagenomic taxonomy identification and compression. *BMC Bioinformatics*. 17:94.

EDUCATION   *Bachelor of Science*, Computer Engineering
University of Illinois at Urbana-Champaign

TECHNICAL SKILLS   *Programming Languages:* Swift, Python, C++, C, SystemVerilog, Java