Jesse Zhang

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WORK EXPERIENCE

Amazon - *Software Engineer*   Sept. 2019 - Nov. 2022

Alexa Smart Energy

- Lead design & development on backend services for integrating external companies offering energy rebates on Amazon.com
- Established common API and data schemas for standarzied integration of external parties

Alexa Connect Kit

- Lead efforts on creating an automated firmware testing environment and developed tests that eventually caught 2 major bugs in production
- Collaborated with manufacturing teams and resolved critical launch blockers
- Designed and implemented critical path device lifecycle management for ACK devices supporting Matter framework

Amazon Halo

- Designed and implemented an online data collection mechanism to improve product accuracy based on customer feedback
- Implemented on-demand Bluetooth connectivity for the Halo app on iOS, resulting in hands-free reconnection of accessory
- Worked between domains to investigate and improved the battery life by 5~10% 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 resulting in ~20% improvement in Tone's onboard success rates and other areas
- 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
Fulcrum GT – *Software Engineering Intern*   Summer 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, Java