

Jesse Zhang

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WORK EXPERIENCE

Amazon - *Software Dev Engineer*

Sept. 2019 - Now

- Launched Amazon Halo - Amazon's Health and Wellness membership
- 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 more scalable approach to phone-accessory interaction for the Halo app to accommodate for future domains that may require accessory interactions
- Improved operational well-being of the Tone feature via runbooks and templated queries for commonly seen problems
- 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
- Improved overall functional testing reliability for ATS
- 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 an iOS app with SAP integration for automated retail store inventory management
- Designed new a SAP service for the inventory pipeline

Fulcrum GT - *Software Engineering Intern*

Summer 2015

- Launched Epoch, a legal time entry solution using SAP, at ILTA 2015
- Designed and implemented Epoch's backend systems with SAP integration
- Explored various iOS frameworks and APIs for location tracking, geo-fencing, and physical activity tracking

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