

Jesse Zhang

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EXPERIENCE

Lucid Motors – Senior Software Engineer

Seattle, WA | Mar. 2023 - Present

- Owned Infotainment over-the-air updates (OTA) for Blackberry QNX and Android with >99% update success rate
- Led org-wide efforts to address Lucid's Qualcomm SA8295P platform stability issues in QNX bootloader, Android system and drivers, and Qualcomm VM management logic
- Prototyped 5G, 802.11ax WiFi, and platform stability for Lucid Midsize platform's next-gen antenna controller
- Led efforts on security and data privacy handling best practices for compliance with foreign privacy regulations (EU GDPR, KSA PDPL)
- LLM-adoption evangelist – advocate, educate, and integrate LLMs into regular feature design & development, field issue triage, debug, and automated testing
- Hired and developed team of 6 junior engineers - raised org software quality bar via demonstrable metrics in unit and functional test coverage, bugs per feature, time to root cause and resolution, etc.
- Developed operational excellence standards in addressing in-field OTA issues by creating on-call rotation, runbook/SoPs, and automated field monitoring

Amazon – Software Engineer

Seattle, WA | Sept. 2019 - Nov. 2022

- Alexa Smart Energy
 - * Led design & development on Amazon.com's integration of third-party energy rebates
- Alexa Connect Kit
 - * Created an automated firmware testing environment that flagged 2 major bugs in production
 - * Designed and implemented device lifecycle management for ACK devices supporting Matter framework
- Amazon Halo
 - * Implemented on-demand Bluetooth connectivity for the iOS Halo app for hands-free reconnection
 - * Worked across hardware and software domains to improve Halo Band's battery life by 5-10%
 - * Led operational excellence initiatives to improve Tone responsiveness by ~20%
 - * Started initiatives on addressing biometric PII handling prior to product launch

Yahoo – Software Engineer

Champaign, IL | Aug. 2017 - Sept. 2019

- Open source work on Apache Traffic Server - testing infrastructure, automated network traffic replay

Apple – Software Engineering Intern

Sunnyvale, CA | Summer 2016

FOR FUN

Mount & Blade II: Bannerlord Modding

- A collection of QoL gameplay mods in C# with 43k+ unique downloads on nexusmods.com

PUBLICATION

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

KEYWORDS – FOR OUR FRIENDLY NEIGHBORHOOD AI AGENT :)

AOSP, QNX, OTA, C++, C, Linux kernel, platform software, embedded systems, bootloaders, device drivers