

Agam Kohli

(734) 945-8291 | agamkohli9@gmail.com | Austin, TX | [linkedin.com/in/agam-kohli](https://www.linkedin.com/in/agam-kohli) | github.com/agamkohli9

RELEVANT EXPERIENCE

Software Engineer

Oct 2024 – Present

Arm

Austin, TX

- Lead verification enablement for Arm's latest LITTLE core in ARM's big.LITTLE architecture, the energy-efficient processor in mobile SoCs. Coordinate across global design and verification teams.
- Deliver monthly releases of Raven, Arm's CPU verification enablement suite used by top-level design verification teams of said core, packaging new ISA-level bug detection capabilities into consistent, stable builds.
- Implemented power verification flows in Raven, enabling uni- and multiprocessor systems to verify warm and implementation-defined resets alongside irritators (random interrupts, external debugger events, context changes, etc.), replacing legacy flows and broadening test coverage.

Graduate Software Engineer

July 2023 – Oct 2024

Arm

Austin, TX

- Supported CPU verification of architectural and micro-architectural features in ARM Cortex A, R, and M cores.
- Developed a register corruption checking feature that intentionally corrupts register values until first legal read/write, enabling detection of unintended register accesses and subtle architectural violations.
- Documented and deployed random test generation methodology in C++ and Python.

Founder

January 2025 – Present

FortisCard LLC

Austin, TX

- Founded an Austin-based startup (fortis-card.com) that develops and commercializes a cryptocurrency hardware wallet, FortisCard. Leverages elliptic curve cryptography for transaction signing and hierarchical deterministic key management.
- Implemented all relevant Bitcoin and Ethereum Improvement Protocols in an offline JavaCard running a restricted version of the JVM. This "cold" environment along with an open source stack from firmware to mobile app ensures verifiable end-to-end security for managing cryptocurrency funds.

CS Research Fellow

Sept. 2022 – Dec. 2022

Google

Remote

- Selected for Google's competitive 12-week Computer Science Research Mentorship Program 2022B cohort.
- Worked 1:1 with a Google mentor on navigating Machine Learning and Compiler research with Apache TVM.
- Attended virtual networking events, career panels, tech talks, and information sessions about computing research opportunities.

AI Fellow

Aug. 2022 – April 2023

University of Michigan

Ann Arbor, MI

- Fused the basic safety messages from vehicles with bounding boxes from smart intersections in real time to reduce unimpaired crashes by an estimated 90%.
- Validated AI inference data from smart intersection hardware in real time using Gaussian regressions with ground truth data from CAVs (connected and autonomous vehicles) sent through MQTT.
- Partnered with AI startup P3Mobility to deploy our product in Ann Arbor intersections.
- Attended Entrepreneurship courses with Ann Arbor startups and global treks with high-impact companies in San Francisco to discuss leveraging Entrepreneurship with AI.

EDUCATION

University of Michigan

Aug. 2020 – April 2023

Bachelor of Science in Engineering, Major in Computer Science

Ann Arbor, MI

- 3.8/4.0 GPA
- Organizations: M-STEM Student Council Board, Michigan Data Science Team, Undergraduate Research Opportunity Program
- Coursework: Static & Dynamic Compilers, Computer Architecture, OS, ML, DS/Algorithms, CV, Web Systems

TECHNICAL SKILLS

Languages: C++, Python, ARM Assembly

Softwares: LLVM, Lex/Yacc, PyTorch, Apache TVM, Linux

Certifications: Scaled Agile Framework (SAFe) 5.0 Practitioner