

# Jayden Koh

Houston, TX

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## OBJECTIVE

Jayden is a Computer Engineering student specializing in cybersecurity at Texas A&M seeking opportunities in developing secure systems with post-quantum cryptography, blockchain, and embedded devices.

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## EDUCATION

### Texas A&M University

College Station, TX

May 2027

- Bachelor of Science in Computer Engineering
  - Minor in Statistics and Minor in Math
  - GPA: 3.7
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## WORK EXPERIENCE

Secure and Trustworthy Hardware Lab *Research Assistant* Aug 2024 – Present

- Conducted research on hardware acceleration for Zero Knowledge Proofs at Texas A&M University.
- Implemented hardware acceleration for Post-Quantum Cryptography, CRYSTALS-Kyber and Dilithium.
- Presented Module-Learning with Errors and Fast NTT findings for CSCE 426 with Dr. JV.

MIT Lincoln Lab *Associate Instructor* Jun 2023 – Aug 2024

- Led a team of 8 Teaching Assistants to support and mentor students, growing team capacity by 150%.
  - Authored and supervised 15 labs on embedded security and hardware hacking, growing library by 50%.
  - Directed 16 teams in developing a secure remote firmware service, increasing deployments by 200%.
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## EXTRACURRICULAR ACTIVITIES

Engineering Mentorship Council *Mentor* Sep 2024 – Present

- Guided underclassmen at Texas A&M through College of Engineering processes like Entry-To-A-Major.
- Advised mentees through course selection, work-life balance, professionalism, and career development.

Hackathon Community *Hackathon Competitor* Nov 2023 – Present

- Designed websites and completed challenges in events like TAMUhack, HowdyHack, and Datathon.
- Implemented Next.JS and React components in UI/UX designs for competitions.

CTF Community *CTF Organizer & Competitor* May 2022 – Present

- Competed in dozens of CTFs like CSAW CTF Finals, PicoCTF, UIUCTF, redpwnCTF, and HSCTF.
  - Developed and solved blockchain, cryptography, binary exploit, and malware reversing challenges.
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## PROJECTS

TAMU Datathon 1<sup>st</sup> Place *SilentVote Lead Architect* Nov 2024

- Designed a privacy-focused decentralized application with zk-SNARKS on the Midnight blockchain.
- Implemented an anonymous voting platform with Zero Trust Architecture connecting users over the web.

LC-3 Toolchain *Embedded Developer* Jan 2024 – Aug 2024

- Developed the first complete toolchain for the LC-3 computer in Zig specifically for embedded devices.
- Designed assembler, compiler, and virtual machine for a simple computer allowing for portability.

Personal Blog *Blogger* Jul 2021 – Present

- Maintain and update personal React and Next.js website with customized UI/UX designs on the cloud.
  - Author technical writeups for cybersecurity gadgets, embedded systems, and hardware projects.
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## TECHNICAL SKILLS

- **Software & Tools:** C/C++, NodeJS, Python, Solidity, ARM Assembly, Linux, Docker, Git, GDB
- **Security:** Post-Quantum Cryptography, RSA, ECC, Ghidra, OSINT, Web3 Exploitation