ETHAN YUN

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EDUCATION

The University of Texas at Austin, Austin, TX   May 2028
Bachelor of Science in Computer Science - **Turing Scholar**
Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics

Stanford Online High School, Stanford, CA
High School GPA: 3.97
Relevant Coursework: Data Structures and Algorithms, Advanced Topics in CS: Computer Systems

TECHNICAL SKILLS

- Assembly (x86 and ARM), C, C++, Java, Python, HTML/CSS, Javascript, SQL
- Flask, Django, Arduino, MSP432, MongoDB, PostgreSQL, Git, GitHub, QEMU, Bochs, Quantum Computing, Qiskit

PROJECTS

loofOS
- x86 operating system written from scratch in C and Assembly
- Custom BIOS bootloader, task switching, user processes, virtual memory
- **Stack**: C, Assembly, x86, QEMU

y86-emul/asm
- Emulator and assembler written for the y86 architecture
- Assembler generates y86 binaries given some assembly code
- Emulator takes y86 binaries as input and allows for live execution and debugging
- **Stack**: C, Java

qsim
- Simulates evolution of a continuous quantum state according to the Schrödinger equation
- Built in simulation of a basic Ion Trap
- **Stack**: Python, Quantum Computing

moogloof.com
- Personal blog/portfolio written using Flask and MongoDB
- Portable to any system
- **Stack**: Python, Flask, MongoDB