

Min Han

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Education

Georgia Institute of Technology | Atlanta, GA

August 2024 – Present

Bachelor of Science in Computer Engineering (CompE)

Zell Miller Scholarship, Minor in Mathematics

University of Georgia | Athens, GA

August 2023 – May 2024

Transfer with 93 Credit Hours

GPA 3.97

Presidential Scholar for Fall 2023

Skills

Programming: C/C++, Python, PyTorch, MATLAB, SystemVerilog, CUDA, Java, TypeScript, Node.js, React, React Native

Platforms: Windows 10 /11, Linux (Ubuntu, Debian), UNIX

Software: Android Studio, Xcode, Weights & Biases, Roboflow, KiCad, Fusion 360

Languages: Korean (native), English (fluent), Spanish (A1), Chinese (beginner)

Experience

SiliconJackets | Atlanta, GA

September 2024 – Current

Engineer / Digital Design Team

SiliconJacket's Digital Design team focuses on exploring SystemVerilog for digital design through collaborative learning and practical application. The team is dedicated to developing a custom RISC-V architecture processor, aiming to deepen expertise in both SystemVerilog and RISC-V architecture.

- Collaborate with a team of engineers to design and implement the ALU module for a RISC-V CPU.
- Analyzed extensive documentation of RISC-V architecture to enhance understanding and application in processor design.
- Simulated and verified functionality of processors using Verilog, enhancing understanding of digital circuit design.

UGA Robotics | Athens, GA

August 2023 – May 2024

Programmer & Designer

A university robotics club focused on the field of robotics with focuses in Battle Bots, IEEE robotics, and RoboDawg—a research project emulating the capabilities of Boston Dynamics's Spot robot.

- Engineered a walking algorithm in C, employing inverse kinematics, PID control, and feedback loops for RoboDawgs.
- Utilized Machine Learning and Computer Vision for dynamic path-tracing and obstacle avoidance, optimizing movement.
- Designed, manufactured, and programmed a fully custom drum spinner Ant-Weight Battle Bot within a week.

Sharc Lab@GT | Atlanta, GA

August 2022 – May 2023

Student Research Intern

Professor Callie Hao's lab specializes in research at the intersection of software and hardware co-design. The lab focuses on reconfigurable computing, machine learning-assisted electronic design automation (EDA), and graph neural networks (GNNs).

- Contributed to the development of Implicit Neural Representation (INR) through focused research utilizing PyTorch.
- Analyzed and synthesized multiple research papers to identify potential algorithm enhancements.
- Worked on integrating various file types from different studies into a unified algorithmic approach.
- Collaborated with multidisciplinary team of graduates, undergraduates, and professors, leveraging diverse expertise.

Projects

MyGPT2 — Recreating OpenAI's GPT-2 Model

June 2024 – Present

- Developed a GPT-2 model from scratch using PyTorch, emulating the structure and capabilities of OpenAI's ChatGPT.
- Processed 500+ public domain books and fine-tuned the model to improve contextual understanding.
- Debugged and evaluated models to ensure accuracy and relevance as well as optimizing for performance.

Plender — Mobile App for Better Time Management

June 2024 – September 2024

- Designed and developed a cross-platform mobile application using React Native, targeting both Android and iOS devices.
- Leveraged LegendApp's highly optimized React state manager to attain close to 100% elimination of full-page re-renders.
- Implemented a local-first data storage system, syncing user data with Google Sheets, saving up to a \$0.10 per user.

Efficient GCD Computation Module Using SystemVerilog

Fall 2022 – Summer 2024

- Developed a SystemVerilog module to calculate the Greatest Common Divisor using the Euclidean Algorithm.
- Implemented the Euclidean Algorithm in SystemVerilog to reduce compute time, enhancing overall module efficiency.
- Conducted thorough testing and verification of the compute module's performance and accuracy using a Verilog Testbench.

Relevant Coursework

Logic Design: Latches, Flip-Flops, Registers, Adders, Comparators, NAND gate optimization, Gate Array ASIC, IC, FPGA

Circuit Design: 8-bit Computers, Bit-Array Programming, Circuit Theory, IC Chips, Arduino Programming