

Ziyi ZHAO

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EDUCATION

The University of Texas at Austin

Austin, Texas

Bachelor of Science in Computer Science

August 2018 - May 2022

- GPA: 3.73/4.0 (University Honor Student from 2018 to 2020)

WORK EXPERIENCE

Huawei Technologies Co., Ltd

Wuhan, China

Software Engineer

August 2022 - Present

- Developed and optimized 10+ high-performance drivers for Embedded Circuit System sub-interfaces (SPI, UART, I2C, GPIO) and complex bus interfaces (USB, PCI-Express) using C in a Linux environment, reducing latency by 30% and improving data transfer speeds by 25%;
- Led the development of a comprehensive Software Development Kit (SDK) for Information and Communication Products, focusing on Optical Network Terminal systems. Implemented 15 new features, resulting in a 20% increase in product functionality and a 15% improvement in user satisfaction scores;
- Contributed over 20,000 lines of core code and producing 50+ technical documents for the software team.

PROJECT EXPERIENCE

Game Jam

Austin, Texas

Team Programmer

July 2020

- Led team in designing and developing an indie game within 48 hours using C#, Visual Studio, and Unity; implemented core mechanics and features to meet specified theme;
- Presented game concept and development process to 100+ fellow developers; successfully published the game, achieving 12th place overall in the competition (Project showcase: <https://ziyi-zhao.itch.io/1234>);

Pintos Operating System Development

Austin, Texas

Student Developer

Jan 2021 - Apr 2021

- Implemented priority scheduling and resolved synchronization issues and designed an efficient virtual memory system with page, frame, and swap table management, enhancing overall system performance;
- Developed and enhanced a functional operating system (Pintos) using C and x86 architecture, implementing thread management, user programs, virtual memory, file system, and shell with system calls.

CONTESTS & AWARDS

UT Programming Contest

Austin, Texas

Individual Contestant

July 2020 - December 2020

- Solved algorithmic challenges (e.g., shortest path, network flow, optimal substructure problems) using Java;
- Consistently performed in the top 20% of contestants, ranking 20th out of over 100 participants on average

UT Math Contest

Austin, Texas

Participant

May 2018 - May 2019

- Secured 1st place in The Albert A. Bennett Calculus Prize Exam, competing against over 60 students;

SKILLS & INTERESTS

- Programming (Python, Java, C++), Operating Systems (Linux, Windows), system testing tools (FIO, PERF, Dhrystone), Device driver development for various interfaces (SPI, UART, I2C, GPIO)
- Mandarin, English (TOEFL scored 107)
- National-level competitive swimmer, ranked in top 5 in China and Provincial swimming champion