

FORREST SUN

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EDUCATION

The University of Texas at Austin

Expected Graduation, May 2024

Bachelor of Science in Computer Science, GPA: 3.56

Austin, TX

Relevant Coursework: Data Structures, Discrete Math, Operating Systems, Compilers, Algorithms, Object-Oriented Programming

PROJECTS

Auctane ShipEngine Demo Application | *Typescript, Javascript, HTML, Emotion CSS*

Summer 2023

- Created and deployed an application from scratch built with **Typescript** and **React** to demonstrate ShipEngine Elements
- Incorporated the **agile methodology** in a professional environment, communicating with design, product, and other teams
- Solved issues and tracked project progress with **Jira** tickets and working with the **Git workflow**
- Fashioned comprehensive testing using **Jest** to ensure stability of the codebase
- Established multiple **API endpoints** and wrote **React** hooks to access these endpoints
- Improved user experience with **Emotion CSS keyframes** animation applied on components

MarchMadnessMayhem.me | *Javascript, HTML, Bootstrap CSS, Python*

Spring 2023

- Designed an informational website displaying relationships between the teams, players, and championship games from past March Madness basketball tournaments using **React** and **Bootstrap**
- Instituted documentation for the **Flask** web-scraped API with **Postman**
- Spearheaded website hosting with **Amazon Web Services (AWS)**
- Developed an extensive testing framework using **Jest** and **Selenium**

Pintos Operating System & Unix Shell | *C*

Spring 2022

- Established an operating system that correctly handled **threads**, **user programs**, **virtual memory**, and **file systems**
- Assembled a UNIX shell to **read command-line prompts** from the terminal to **process and execute user input**
- Worked in a team and applied **pair programming** techniques to accelerate the problem solving and debugging processes

Pascal Parser | *C, Pascal*

Summer 2022

- Implemented a parser in **C**, using **shift-reduce parsing**, for **lexical and syntactical analysis** to read a **Pascal** code framework
- Utilized **symbol tables represented as binary trees** associating names with their object information to allow for expedited lookup
- Built tree structures off of **operator precedence** with **Yacc/Bison** specifications

TECHNICAL SKILLS

Languages: Typescript, Javascript, HTML, CSS, C/C++, Java, Python

Developer Tools: VSCode, Git, GitHub, GDB

LEADERSHIP EXPERIENCE

UT Austin Chinese Student Association | *President*

May 2022 - May 2023

- Supervised a **team of 11 officers** to properly prepare, manage, and **host events of over 100 people** through weekly meetings to keep the organization running smoothly
- Communicated regularly with campus organizations as well as **external companies** to effectively collaborate on large-scale events
- Coordinated a successful Mid-Autumn Festival with food and performances attended by **over 800 people**

UT Austin Asian Business Student Association | *Webmaster*

Sept 2020 - May 2021

- Maintained and updated the official website, including refreshing current and upcoming events, and adding **unobtrusive widgets**
- Tracked and analyzed **open rates and click patterns** for hundreds of emails

INTERESTS & HOBBIES

Bouldering, Shoutcasting, Swimming, Music, Ultimate Frisbee, Videography