Scott Lai
Aspiring Software Engineer

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EDUCATION

University of Texas at Austin   Aug 2020 – May 2024
Bachelor of Science in Computer Science & Business Minor   *Austin, TX*
- **GPA**: 3.6789
- **Relevant Coursework**: Data Structures · Algorithms · Computer Architecture · Computer Systems Machine Learning · Data Management · Software Engineering · Modern Web Apps · iOS Mobile Computing

SKILLS

Languages	Python · Java · C++ · C · HTML · CSS · JavaScript · Typescript · SQL · Swift
Tools	React · Flask · SQLAlchemy · PostgreSQL · MySQL · MongoDB · Neo4j · Git · LaTeX
Cloud	AWS: Amplify, Elastic Compute Cloud, Elastic Beanstalk, Certificate Manager · Docker
Content Creation	Adobe: Premiere Pro, After Effects, Photoshop, Illustrator · Sony Vegas Pro

PROJECTS

Responsive Web App   Sep 2022 – Dec 2022
Back End   *Austin, TX*
- Built a dynamic website using React & Flask hosted on AWS to display data on endangered species
- Collected & cleaned data from 3 external APIs using Python scripts, resulting in a relational database of 499 unique plants, animals, & states stored across 12 tables
- Implemented searching, sorting, & filtering of data using SQLAlchemy, resulting in a RESTful API capable of multiple queries & pagination

Responsive Web Page   May 2022 – Sep 2022
Front End   *Houston, TX*
- Built a personal portfolio using HTML, CSS, & JavaScript hosted at `cs.utexas.edu/~scottlai`
- Achieved cross-platform compatibility by writing 2 media queries, providing a comfortable user experience on all screens as small as 375px wide

File Explorer Graphical User Interface   Apr 2022 – May 2022
Programming & Logistics   *Austin, TX*
- Built a user interface to display an EXT2 file system navigable by keyboard input
- Compiled the project's progress, results, & demo video into a presentation earning 4.4% higher than the average

Position Prediction Algorithm   Apr 2021 – May 2021
Freshman Researcher   *Austin, TX*
- Coded an algorithm to predict a person's movement using depth sensor data from an Azure Kinect camera
- Reduced error by 30% by applying a Kalman filter, allowing for accurate predictions 8 frames into the future

EXPERIENCE

UT Austin School of Nursing, Simulation & Skills Center   Sep 2020 – Dec 2020
Student Lab Assistant   *Austin, TX*
- Retrieved lab equipment on-demand within 30 seconds by memorizing the layout of the supply room, saving 90 minutes per semester & allowing all classes to start on time
- Performed various tech-related tasks: machine start-up, organizing equipment, tech support, software installation

HONORS

University Honors	University of Texas at Austin	2020 – 2022
Rodeo Scholar	Houston Livestock Show & Rodeo	2020