Xige Michael Chen

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Education

University of Texas at Austin, Cockrell School of Engineering **Expected 2023**
Bachelor of Science, Electrical and Computer Engineering *(Software Engineering and Embedded Systems)* **Overall GPA 3.85**
Pursuing integrated Masters in Electrical Engineering **Major GPA 3.94**
Pursuing BSA in Mathematics

Currently Taken: Operating Systems, Algorithms, Software Engineering and Design Lab

Previously Taken: Computer Architecture, Software Design and Implementation, Data Structures, Embedded Systems, Linear Systems and Signals, Linear Algebra

Experience

Software Intern for AAK-Telescience (Remote Work) May 2020 – Aug 2020 | Davis, CA

- Developed Flask web apps to match 100k+ researchers with research opportunities based on keyword
- Implemented a desktop app using ElectronJS to extract keywords from user documents to Flask web app
- Build modern dynamic web pages that process and render SQL data using AJAX, Jinja, and Bootstrap 5

Tutor Jan 2019 – Present | Dallas/Austin, TX

- Taught STEM subjects such as Physics, Vector Calculus, Differential Equations to high school students and college student
- Programming subjects such as Computer Architecture, Python, C, C++

Projects

Hack TX 2020 | *Javascript, Ajax, Material UI, Python, Google Cloud* Sept 2020 – Dec 2020

- Developed a web app that helps students with practical speaking and presentation skills using Google Cloud's NLP
- Convert WAV to FFmpeg using Javascript for speech-to-text and speech syntax analysis

Personal React Web Portfolio | *Javascript, ReactJS, Material UI, CSS* Jan 2021 – Present

- Developed a Modern Website Portfolio using ReactJS that details what I've learned at UI
- Features elements built using Material UI and Custom Parallax Scrolling built using React

Computer Architecture Labs | *C, LC3-b Assembly* Sept 2020 – Dec 2020

- Functional Assembler that turns LC3-b assembly into machine code
- Built multiple versions of LC3-b simulator (Instruction Level, Cycle Level, Exception and Interrupts, Fully Pipelined)

Venmo Automation | *Python, ElectronJS, Venmo API, CSS, HTML* Sept 2020 – Present

- Developed a Python App that allows for large scale automated Venmo using a Excel Spreadsheet
- Minimalistic Desktop App built using ElectronJS

Data Structures Final Project | *Java, JavaFX, Apache Derby, SQL* Nov 2020 – Dec 2020

- Developed a fully multi-threaded Java app allowing users to place real-time bids using Observer Class
- UI/UX is built using JavaFX, data is transferred using JSON, and information is encrypted using SHA-512 Salt/Hash

Organization

IEEE UT Austin | Active Member Aug 2019 – Present

Longhorn Racing | BPS Team member | C, Arm Assembly Jan 2020 – May 2020

- Developed charge meter that keeps track of battery percentage without having to physically measure the Voltage/Current

Honors/Awards

Honors | *American Invitational Mathematics Examination (AIME), 2016-2018*

Skills | *C/C++, Java, Python, JavaScript (Node), Docker, Flask, HTML, CSS, Git, Bash, Arm Assembly, Material UI, Jinja, Bootstrap*

Certificates | Microsoft Office Specialist (MOS) certification (*Word, PowerPoint, Excel, Access*)