JONATHAN TUNG

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EDUCATION

The University of Texas at Austin	Texas Honors Computer Science Business	May 2023
GPA: 3.82	Bachelor of Science, Honors Computer Science	
	Bachelor of Business Administration, Business Honors	

EXPERIENCE

Gentrifi GPS – *Software Developer Intern;* Allen TX   Summer 2021
- Restructured Critical Event Reporting backend/frontend to interface with MySQL Database using JSP and CSS
- Implemented live footage features by requesting continuous live footage packets using RESTful API
- Programmed Breadcrumb functionality to plot vehicle routes, detect idling, and display critical events
- Streamlined data collection at endpoint by parsing four JSON location packets simultaneously using Java Servlets

Texas Convergent – *Build Team;* Austin, TX   Fall 2020 – Spring 2021
- Established a business model and value proposition for a mobile application connecting users and nonprofits
- Developed a front-end mobile UI using Figma and React Native

SKILLS

Java, JavaScript, Python, C, C++, MySQL, HTML, CSS, JSP, RESTful API, Figma, Microsoft Excel, Canva, Latex

ACADEMIC PROJECTS

Portfolio Modeling (Excel)   Summer 2021
- Analyzed beta correlations of individual stocks to the overall market under bullish/bearish conditions
- Built portfolios that take advantage of favorable beta correlations to improve overall performance
- Compared portfolio performance over time using Monte Carlo simulations to mitigate effects from return erosion

Web Crawler & Search Engine (Java)   Fall 2020
- Built a web crawler that scanned a network of web pages and stored their contents in an efficient web index structure
- Constructed a query engine that parsed and interpreted queries, returning a list of relevant URLs

Tetris AI (Java)   Fall 2020
- Designed a Tetris artificial intelligence system able to clear 8000+ lines
- Implemented a greedy algorithm that assigned all possible board states to a score weighted on maximum height, number of holes, and jaggedness

Discord Moderation Bot (Python)   Fall 2020
- Developed a Discord bot that moderated server of 100+ users, reporting participants who disobey server guidelines
- Parsed user messages and cross-referenced with a dictionary of inappropriate speech

LEADERSHIP ACTIVITIES

Design for America – *Publicity Coordinator | Voter Engagement;* Austin, TX   Fall 2020 – Present
- Organized field data collection of voter opinions and drafted a Figma that targeted stakeholder pain points
- Coordinated digital marketing through several social media platforms and the Moody College of Communication

Woodlawn Strings – *Cofounder*   Fall 2016 – Spring 2020
- Founded a registered non-profit string ensemble and organized local performances at senior communities

HONORS

- University Honors   Fall 2020 – Spring 2021
- Finalist, University of Houston Mathematics Competition (Statistics)   Spring 2019 – Spring 2020
- USA Computing Olympiad Silver Division   Fall 2019
- Semifinalist, National Economics Challenge | 1st Place, Texas Personal Finance Challenge   Spring 2018