Aiden **Szeto**

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Experience

VHomes Group   *May. 2020 - Present*

MARKET RESEARCH INTERN & FULL STACK ENGINEER

- Web scraped data from open source Zillow API to interpret the effects of Covid-19 on US housing markets (Python)
- Developed VHomes' official website, vhomesgroup.com (HTML, CSS, Javascript)
- Drove VHomes' customer analytics strategy by analyzing travel trends, moving patterns, and short term rental regulations

Grapevine   *Jun. 2020 - Present*

ENGINEERING INTERN

- Designed company splash page (teamgrapevine.com) with simple contact form features (HTML, CSS, and Git)
- Facilitated user ambassador program via digital marketing in order to improve cohort retention and localize beta tester population
- Researched top 15 universities for a targeted marketing campaign

JEI Learning Center   *Aug. 2019 - Sep. 2020*

MATH AND STEM INSTRUCTOR

- Taught math concepts to elementary, middle, and high school students in groups of 5 or less at a time
- Lead STEM workshops for students between the ages of 5 and 14 and taught programming fundamentals with LEGO WeDo and VEX IQ
- Used classroom management and communication to maximize learning in the classroom

Education

University of California, Los Angeles   *Los Angeles, CA*

B.S. IN COMPUTER ENGINEERING   *Aug. 2020 - Jun. 2024 (expected)*

- Relevant Coursework: N/A

Folsom High School   *Folsom, CA*

HIGH SCHOOL DIPLOMA, GPA: 4.56   *Aug. 2016 - May. 2020*

- Relevant Coursework: AP Computer Science A, AP Calculus BC, AP Physics A

Projects

Edge Detection Algorithm

C (PROGRAMMING LANGUAGE)

- Iterated through and determined RGB value of each individual pixel within a user-inputted jpeg image
- Computed differences in the surrounding RGB values (both vertically and horizontally adjacent) using the Sobel operator
- Outputted new, identical jpeg file with edges highlighted based on computed value

Dictionary Application Bot

PYTHON, SQL

- Developed a public Discord bot to provide definition, synonym, rhyme, and example functionality in any server
- Web scraped JSON data from WordsAPI to populate a local SQLite database
- Implemented efficient data retrieval method using database content to output stored results instead of fetching data via API call
- Utilized regular expressions to accurately interpret user inputs

Sun-Tracking Solar Panel

ARDUINO, C (PROGRAMMING LANGUAGE)

- Positioned various photoresistors to retrieve analog input based on light intensity
- Used Arduino to adjust servo motor values based on the differences in opposing photoresistor readings
- Designed and built single-axis tracking stand to house solar panel and arduino components

Skills

Programming	Python, C, Java, SQL, Javascript, Web Scraping, Database Architecture, Web Design
Technologies	Git, SQLite, MERN Stack, REST APIs, Linux OS, Arduino, Adobe Photoshop, Autodesk Inventor (CAD), Notion
Entrepreneurial	Startups, Market Analysis, Cohort Retention, Digital Marketing, Competitor Research
Interpersonal	Presentations, Communication, Leadership, Teaching