James Zhou

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EDUCATION:

UCLA, Samueli School of Engineering, Computer Science   **Expected June 2022**
- Relevant Coursework: Data Structures, Discrete Math, Algorithms, Operating Systems
- GPA: 3.67

Miramonte High School   **Graduated June 2018**
- Academic GPA: 4.46 weighted, Activities: COSMOS attendee, Latin Club Officer, Public Speaking/Debate Team, Ultimate Frisbee Team Captain, Swim Instructor/Lifeguard

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EXPERIENCE:

Amazon Web Services – Software Development Engineering Intern, *Seattle,WA*   **Jun 2020–Sep 2020**
- Created serverless ETL jobs pipeline to parse and scale server thermal validation Excel reports for the manufacturer and quality assurance lab
- Independently architected the solution, optimized further to reduce the runtime by 80% using threads
- Developed visualizations for thermal engineers to analyze/compare report data in Elasticsearch/Kibana
- Technologies: Python, AWS: Lambda, Elasticsearch, Kinesis, Cognito, Glue, Redshift and others

Code Inspector - Software Development Contractor, *San Francisco, CA*   **Jun 2019-Sep 2019**
- Designed and implemented Google Chrome Extension to display Code Inspector analysis results in Github. Code Inspector is a new platform that analyses code quality to help users manage technical debt
- Developed Unit Tests and verified the extension using Mocha, Sinon, Chai
- Produced video and wrote an article to help market the product
- Technologies: Javascript, HTML, CSS

Daily Bruin - Web Developer, *Los Angeles, CA*   **Apr 2019–Jun 2020**
- Built dynamic and interactive flatpages for UCLA special events (UCLA Centennial, COVID student stories etc.) as a member of the External Sites team
- Created Python script to convert old markdown article files into ArchieML Google Docs, enabling reader access to older editions of PRIME, the award winning quarterly magazine
- Technologies: React, Typescript, Gatsby

PROJECTS:

Code Inspector Chrome Extension   https://github.com/codeinspectorio/chrome-extension
- Using Code Inspector's GraphQL API, the extension provides the user with a bird's eye view of which projects/directories/files at a given commit require the most attention in the current directory view by parsing the DOM and inserting informative badges
- The extension recursively fetches for all errors in the file view, inserts a colored summary badge and highlights the line with errors, provides explanation for the error associated with a badge when clicked
- The extension also includes an API key authentication interface

iAwake   https://github.com/jamesszhou/iAwake
- Created at LAHacks 2019 on a team with four other UCLA Students, the app identifies if a driver is falling asleep at the wheel and wakes them up
- Our app uses Google Maps and Twilio APIs to send geolocation notifications to emergency contacts as well as navigation system to route driver to the nearest gas station to rest
- I worked on iOS implementation in Swift, using Apple's ARKit to detect a "sleeping" driver

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LEADERSHIP:

UCLA Club Ultimate Frisbee - Team Captain, *Los Angeles, CA*   **May 2020-Present**
- Cultivate healthy practice environment to teach players fundamental skills of ultimate frisbee
- Correspond with UCLA competitive club sports office for health, safety, recruiting of players

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SKILLS AND INTERESTS:

- Languages: C++, Python, C, Javascript, HTML/CSS
- Frameworks: React, Bootstrap
- Interests: Ultimate Frisbee, Sourdough Baking, Guitar, Photography