

Jesse Liang

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Experience

American Express – Phoenix, AZ *June 2020 – August 2020*

American Express Software Engineering Intern

- Signed offer letter for Technology group summer internship, team placement pending

RCSB Protein Data Bank – San Diego, CA *July 2019 – Present*

Software Development Assistant

- Developed code for macromolecule-analysis **Node.js** library, Molstar (Mol*)
- Built tools for rendering protein images and exporting graphics

Blindsight. – San Francisco, CA *July 2018 – December 2019*

Mobile Application Developer

- Earned a total of **\$14000** in prize money from VISA and HERE Mobility
- Presented at **TechCrunch Disrupt SF 2018** and featured on CBS news, Make magazine, and PYMNTS
- Developed **iOS** and **Android** apps for a custom smartwatch, designed to aid the blind in locating items
- Integrated speech recognition for voice commands and **TensorFlow** to identify objects

Skills

- Mobile App Development
- Node.js, MongoDB, JS
- Java, C/C++, Python
- Agile Methodology, BDD
- Unit Testing, Mocking, CI
- GIT, SSH, Unix, ZenHub
- ARM Assembly Language
- Wireless Embedded Systems
- Analog & Digital Circuits

Awards

- PwC: Journey to the Future – LA Hacks 2020 *Mar 2020*
- Best Hack w/ Autonomous DB (**\$200**) – LA Hacks 2020 *Mar 2020*
- Semi-Finalist – TechCrunch Disrupt SF 2018 Hackathon *Aug 2018*
- VISA First Place Prize (**\$8000**) – TechCrunch Disrupt SF 2018 Hackathon *Aug 2018*
- Best Use of HERE Mobility (**\$6000**) – TechCrunch Disrupt SF 2018 Hackathon *Aug 2018*
- Best Tech/App Idea (**\$150**) – NASA's Space Apps Challenge SF 2016 *Apr 2016*
- Best Use of Weebly (**\$1000**) – AngelHack SF 2016 *Apr 2016*
- Best Use of Amazon Web Services – Los Altos Hacks 2016 *Jan 2016*

Education

University of California, San Diego – La Jolla, CA *Expected Graduation: June 2021*

Computer Engineering B.S. (3.14 GPA)

Relevant Courses:

- CSE 100: Advanced Data Structures (**KD-Tree Nearest Neighbor**, Dijkstra, A*, Huffman Encoding)
- CSE 101: Design and Analysis of Algorithms (NP-Completeness, Dynamic Programming) [Spring 2020]
- CSE 110: Software Engineering (**Agile Software Process**, BDD, Android, **Software Design Patterns**)
- CSE 140 & 140L: Digital Systems Design (Verilog, Finite State Machines, Universal Logic Gates)
- CSE 190: Wireless Embedded Systems (**Internet of Things**, Cortex M0+, I²C Bus, MEMS, **Bluetooth LE**)

Student Organization Projects:

- In-flight rocket telemetry application, built with Java and JavaScript (**Rocket Propulsion Lab**, Fall 2018)
- Package delivery robot, built with GCP, Node.js, iOS, Python (**IEEE**: Quarterly Projects ++, Spring 2019)