JUSTIN JIANG

(213)-994-1612 | justinjiang37@outlook.com | linkedin.com/in/justinjiang37 | github.com/justinjiang37 | Los Angeles, California

EDUCATION

University of Southern California [USC Presidential Scholar] **Los Angeles, California, USA**

Bachelor of Science, Major: Computer Engineering and Computer Science | Minor: Business Finance *Expected: May 2028*

- *GPA: 3.90/4.00*
- Relevant Coursework: Introduction to C++ / Data Structures / Calculus III / Linear Algebra / Tradings and Exchanges

PROJECTS AND RESEARCH EXPERIENCE

BREW - LA Hacks 2025 Winner (Linkd API Company Challenge) **Los Angeles, California, USA**

Full Stack Developer *April 2025 – Present*

- Built an agentic software to help fully automate sending cold outreach messages and emails. See our Demo
- Developed frontend and backend logic using Linkd API, Google Gemini LLM API, and Stagehand

TempoRun - HackSC 2024 Winner (Athlete Vertical) **Los Angeles, California, USA**

Full Stack Developer *November 2024*

- Built Swift-based frontend enabling users to input music preferences and pacing data for curated workout playlists
- Integrated Spotify API using Node.js, automating the addition of personalized playlists directly into users' libraries

Yale Astrophysics Researcher **New Haven, Connecticut, USA**

Student Researcher *June 2023 – October 2023*

- Analyzed and processed luminosity data points using NumPy and Matplotlib to algorithmically fit 7 standard light curve models
- Collected observational data covering phases from -4 days to 15 days relative to its r-band peak luminosity
- Co-authored publication on supernovae classification findings in *Astrophysics and Space Sciences* peer-reviewed journal
- Research DOI: https://doi.org/10.1007/s10509-023-04250-x

The Click **Vancouver, British Columbia, Canada**

Software Developer/Project Manager *July 2020 – July 2022*

- Self-taught game development in Unity Game engine to create a multiplayer horror game using C# and Photon Networking
- Implemented NavMesh AI algorithm that allows in-game characters to track players upon triggering its "detection zone"
- Recorded progress via YouTube playlist: Progress Log (9 videos showing game demos and evolution of game design)

USC Makers **Los Angeles, California, USA**

Embedded Software Engineer *September 2024 – Present*

- Engineered a mechanical-powered pad that converts energy in foot traffic into storable electrical power [Fa24: Power Path]
- Built pool table showing predicted ball trajectories based on direction, location, and wind up of cue stick [Sp25: ATE Ball]

Canadian Satellite Competition (CanSat) **Drumheller, Alberta, Canada**

Engineering Lead/Team Manager *December 2022 – March 2023*

- Engineered a pop can sized satellite capable of air-to-ground atmospheric data transmission
- Soldered and Arduino Nano to a BMP 280 sensor, 3-axis accelerometer, radio antennas, and other components
- Obtained 126 live data points for 6 variables to determine the environment's habitability for human development

LEADERSHIP AND ACTIVITIES

Private Pilot License **Vancouver, British Columbia, Canada**

Private Pilot *April 2023 – Present*

- Placed 2nd and youngest finalist in COPA Neil Armstrong Scholarship ($14,000 attributed to new student pilots)
- Flew 87.90 hours (73.50 hours dual and 14.40 hours solo) in Cessna-172 to obtain a private pilot's license

Pacific Sea Wolves Swim Club **Vancouver, British Columbia, Canada**

Senior Swimmer/Coach *September 2015 – June 2024*

- Competed at the provincial level for 8 years and coached young swimmers to improve their technique and break 3 club records

SKILLS AND AWARDS

Languages: English (Native), Mandarin (Native), Spanish (Conversational)

Technical Skills: Python, C#, Java, C++, Swift, SQL, XCode, , Blender, Fusion 360, Unity

Frameworks and Libraries: NumPy, Matplotlib, SvelteKit, MongoDB, NestJS, Node.js, Photon Engine, NavMesh (Unity)

Awards: Canadian Computing Competition Honor Roll / COPA Neil Armstrong Scholarship 2nd Place / Royal Canadian Glider Pilot Scholarship / International Summer Session for Young Physicists Admittance / AP Scholar with Distinction