Cameron Jiang

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Education

University of Washington Seattle, WA

B.S. Computer Science *Expected June 2028*

- **Coursework:** Data Structures & Algorithms, Software Design and Implementation, Foundations of Computing I, Computer Ethics Seminar, Linear Algebra, Intermediate Calculus

Experience

Software Engineer Seattle, WA

Husky Coding Project, Winter Showcase *Oct. 2026 – Present*

- Developing a live sports score tracking platform for University of Washington athletics as part of a team-based software engineering project

Software Engineer

MedSnap | React, MUI, Express, MariaDB, Redis, OpenAI API *Jun. 2025 – Jan. 2026*

- Developed a full-stack AI medical note autocompletion tool for a medical clinic to streamline repetitive clinical documentation
- Implemented salted password hashing, Redis-backed sessions, AES-encrypted OpenAI API keys, and patient-data anonymization before external API calls to an LLM
- Cut the clinic's notetaking time by ∼80% in testing, from ∼15 minutes manually to ∼3 minutes with MedSnap

Projects

TRIBE v2 Visual UI Evaluation | *Python, Nilearn, Playwright*

- Integrated Meta's TRIBE v2 model to predict human brain activation responses to webpage interfaces
- Automated webpage screenshot capture using Playwright for model evaluation
- Developed a pipeline that maps raw fMRI predictions to 3D space, parcellates the voxels based on region, and predicts neural engagement using activation averages

Franka Emika Panda Box Sorting RL | *Python, JAX, MuJoCo*

- Designed a configurable reinforcement-learning environment for the Franka Emika Panda robot arm with fine control over surface friction, box spawn rate, and movement noise
- Implemented curriculum training for the robot arm to complete a non-prehensile task of sorting boxes on a moving conveyor
- Analyzed 750M+ policy training steps and expanded PPO observation states to avoid training plateaus

Research, Activities & Honors

Bone Fracture Malunion Prediction Research | *JMP, MIMIC-IV, PyCaret*

- Worked with Dr. Chamith Rajapakse to investigate predictors of fracture malunion using clinical data from MIMIC-IV bone fracture patients
- Performed data preprocessing, feature engineering, and model evaluation
- Presented abstracts at the ASBMR 2025 Annual Meeting and the BMES 2025 Annual Meeting

California State Summer School for Mathematics & Science (COSMOS)

- Investigated the intersection between cybersecurity and autonomous systems at UCSC
- Reviewed the math behind encryption methods like SHA-256, AES, and Diffie-Hellman
- Studied the Bellman equation and implemented Markov decision processes and policy iteration

USA Computing Olympiad (USACO): Gold Division

Skills & Interests

Languages: JavaScript, Java, Python, TypeScript, C++
ML & Robotics: PyTorch, TensorFlow, Pandas, AirSim, Stable-Baselines3, Keras
Tools & Frameworks: React, Git, MySQL, Linux, Unity, Playwright, Express, Redis, REST APIs
Interests: Badminton, Weightlifting, Rubik's Cubes, Mandarin & Cantonese Language, Philosophy