

# JASON CHAN

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## EDUCATION

University of California, Los Angeles (UCLA)

Computer Science B.S

Los Angeles, CA

Expected June 2026

## HONORS & AWARDS

- Best Overall Presentation/Paper, International Young Researcher's Conference (2021)
- Sensei of the Year, Code Ninjas (2022)

## EXPERIENCE

**Block Clinical Inc.**

Software Engineer

Remote

August 2024 - Present

- Enhanced financial reporting by implementing a "vendor" column in live report generation, enabling tracking of patient logistic services by interfacing with both relational and NoSQL databases using various API calls to 15+ supplier integrations
- Transformed patient reimbursement management with a dynamic dropdown interface, enabling efficient real-time updates and enhancing operational productivity

**Neural Engineering and Computation Lab, UCLA**

Deep Learning Researcher

Los Angeles, CA

June 2023 - Present

- Integrating novel real-time transformer-based sEMG signal decoding with a Nintendo Switch to enable neural-predicted gameplay in Mario Kart
- Engineered a load-balancing pipeline to optimize model training on 4 local and remote GPUs decreasing system latency by 400%
- Investigated the impact of Fast Fourier Transform preprocessing on EEG data as an input layer for EEGNet neural network architecture

**Ionis Pharmaceuticals**

Data Science Intern

Carlsbad, CA

June 2022 - August 2022

- Leveraged computational framework, cell2cell, as well as Pandas, NumPy, and NetworkX to predict 100+ protein-protein interactions in non-alcoholic fatty liver disease
- Screened ~15 potential drugs' effect on ligand-receptor interactions which led to analysis being implemented for future projects
- Employed hierarchical clustering and dimensionality reduction techniques such as UMAP to determine scRNA-seq similarity

**Department of Biomedical Informatics, UCSD**

Full-stack Software Engineer Intern

San Diego, CA

June 2020 - February 2021

- Developed blockchain prototype for tracking COVID-19 questions across 12 universities and hospitals
- Created back-end smart contract using Solidity in order to store 9,000+ queries leading to a 3.5 times faster solution than baseline
- Spearheaded development of a front-end graphical user interface using Java to allow for increased accessibility

## ACTIVITIES

**Nova, Tech for Good**

External Vice President, Project lead, Developer

UCLA

November 2022 - Present

- Led a cross-functional team of 11 developers, designers, and business strategists to create an internal reimbursement application for CoachArt, a non-profit organization, improving operational efficiency for 2,400+ volunteers
- Developed a comprehensive 15 page React-based web application for UCLA's Blood and Platelet center, enabling the organization of club blood drives
- Directed a club of 30 members to initiate outreach to 40 non-profits, securing collaborations with 4 organizations to provide pro-bono technical solutions

## SKILLS

- Javascript, Typescript, React.js, Node.js, React Native, MongoDB, Firebase, Git, Shell scripting, Bash, Regular Expressions, Lisp, OpenMP, Python (NumPy, pandas, Matplotlib), Scikit-learn, PyTorch, Java, C++, HTML, CSS, Data Structures and Algorithms, Linux, SQL

## PUBLICATIONS

Armingol E, Ghaddar A, Joshi CJ, Baghdassarian H, Shamie I, **Chan J**, et al. (2022) Inferring a spatial code of cell-cell interactions across a whole animal body. PLoS Comput Biol 18(11): e1010715. <https://doi.org/10.1371/journal.pcbi.1010715>

**Chan J**. Classifying allergic rhinitis subjects and identifying single nucleotide polymorphisms using a support vector machine approach. 2021. <https://doi.org/10.34614/iycrc0040>

Tsung-Ting Kuo, Anh Pham, Maxim E Edelson, Jihoon Kim, **Jason Chan**, Yash Gupta, Lucila Ohno-Machado, The R2D2 Consortium, Blockchain-enabled immutable, distributed, and highly available clinical research activity logging system for federated COVID-19 data analysis from multiple institutions, Journal of the American Medical Informatics Association, 2023;, ocad049, <https://doi.org/10.1093/jamia/ocad049>