

# Jordan Chen

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## EDUCATION

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### University of California San Diego, La Jolla, California, CA

June 2028

GPA: 3.9 | *B.S in Mathematics Computer Science, Minor in Data Science & Cognitive Science*

Relevant coursework: Object Oriented Programming, Data Structures and Algorithm, Discrete Mathematics and Graph Theory, Statistics

Awards: Provost Scholar 2x, Columbia Model Entrepreneur Competition Finalist, Scholastic Golden key

## WORK EXPERIENCE

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### Software Developer Intern

November 2025 — Present

UCSD Design Lab

San Diego, CA

- Packaged AI assisted chatbot component for easier installation within **Meridian npm Package** (Developer package by UCSD)
- Developed **prompt-engineering** and **Python tooling workflows** enabling Meridian users to dynamically generate customized UI components with chat prompts.
- Created **Full Stack** application integrating Meridian into **React** and **Next.js** to create demo applications to test practical uses of both **data binding** and custom UI generation aspect of Meridian.
- Contributed developer feedback during team design meetings that influenced future Meridian feature development.

### Data Analyst Intern

January 2026 — Present

Sanford Burnham Prebys

San Diego, CA

- Integrated **data visualization** steps into an existing **python** script to generate graphical representations of neuro signals.
- Processed gigabytes of neuro data through **MEANap**, **oscillation**, and **spike sorting** workflow.
- Created **Next.js** application to convert raw data into processed data formatted to **2x efficiency** for data analysis in prism.
- Utilized **Prism** to generate **two-way ANOVA** graphs for data analysis.
- Debugged and setup virtual environments for co-workers to run data processing scripts.

### Programming Instructor & Event Coordinator

January 2022 — June 2025

NGYL

Jericho, NY

- Created NGYL website with HTML, CSS, and Javascript to increase organizational awareness, **2x volunteer sign-up**, and provided a communication platform for organization missions and events.
- Organized and invited 4 industry professionals for a STEM career seminar (**200+ participants**).
- Taught **300+ students** in Python, drones robotics, Lego robotics, and machine learning.

## TECHNICAL PROJECTS

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### No Code EDA | *HCI, Next.js, FastAPI, OpenAPI, Meridian Package, Python*

- Redesigned the data analysis workflow with AI assisted Human Computer Interactions (**HCI**) Principle; enabling users to sort, filter, reorder, and visualize datasets through **natural-language interaction** with an AI assistant.
- Full stack development using **Next.js**, **FastAPI**, **OpenAPI** to establish connection between chatbots with EDA tool calls.
- Integrated **Meridian package** (Developer package by UCSD) to databind CSV data with visualizations.
- Built isolated, version-controlled analysis environments for collaborative EDA workflows similar to Google Docs.

### DeckScan | *Computer Vision, Next.js, Python, CSV Manipulation*

- Developed a computer vision application to automatically scan and reconstruct poker card orderings, increasing data collection **efficiency by 3x**.
- Processed and analyzed **600+** wash shuffle trials using DeckScan, generating large-scale datasets for **probabilistic modeling** and **statistical analysis**.

### Signal Normalization | *Excel, pandas, openpyxl, Node.js, React*

- Built a web app using **React** and **Node.js** to process fluorescent signal Excel data, converting raw plate/well layouts into a standardized format, reducing manual preprocessing time by **50%**.
- Implemented data parsing and transformation pipelines in Python (**pandas**, **openpyxl**) to normalize signals of uploaded datasets, ensuring consistent scaling for analysis.
- Generated automated summary statistics and structured tables for all experimental files, enabling direct import into **GraphPad Prism** and reducing downstream analysis time.

## SKILLS

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**Languages:** Python, Java, JavaScript, SQL, HTML/CSS, R, C

**Frameworks:** React, Next.js, FastAPI, TailwindCSS, OpenAPI, Node.js

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn, OpenCV, Git, Prism

**Areas of Interest:** AI Tooling, Computer Vision, Human-Computer Interaction (HCI), Data Visualization, Statistical Modeling, Full Stack Development