Hunter Flores

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EDUCATION

University of California San Diego — La Jolla, CA
Bachelor of Science in Cognitive Science spec. Machine Learning and Neural Computation | GPA 3.621 — *Sept. 2021 – June 2025*

- **Minor:** Computer Science
- **Coursework:** Machine Learning, Software Engineering, Advanced Data Structures, Advanced Algorithm Design, Data Science, Statistics, Probability, Software Tools and Techniques, Discrete Math, Computer Graphics, Embedded Systems, Linear Algebra, Calculus, Neuroscience, Learning Memory and Attention, Electronic Music Production
- **Study Abroad:** Barcelona, Spain in the Summer of 2022 to study Spanish

TECHNICAL SKILLS

Languages: Python, SQL, C, C++, C#, Java, JavaScript, CSS, HTML, R
Frameworks: Pandas, NumPy, SciKit Learn, SciPy, Ploty, Seaborn, React
Developer Tools: Agile Development, Design Patterns, Git, Vim, Bash, VS Code, Jupyter Notebook, Docker, MongoDB

EXPERIENCE

Comparative Cognition Lab *Undergraduate Research Assistant* — La Jolla, CA | *Jan. 2023 – Present*

- Analyzed a large database of children's vocabularies to attempt to glean information about children's learning behaviors using *NMF (Non-negative matrix factorization)*
- Built tools to assess children's social language learning environment using experience sampling. I created a webapp/survey for caregivers to periodically record what activities children were engaged in and with whom, used *JavaScript*, *HTML*, *CSS*, and *FullCalendar API*
- Conducted qualitative and quantitative analysis on language learning corpora, e.g. CHILDES. Applied Conversation Analytic methods to understand talk in interaction. Determine what kinds of situations are overrepresented in these corpora using a taxonomy of common children's activities

Lavner Education *STEM Camp Instructor* — Seattle, WA | *June 2024 – August 2024*

- Taught kids from the ages of 6-10 Robotics (LEGO Mindstorm), Coding (Block Code), Game Design (GDevelop), and Pokémon
- Worked with and built each curriculum for maximum learning and enjoyment of the students, took the structure supplied and evolved it on the fly dependent on observations of enjoyment and interest of each camper

UCSD CSE Department *Undergraduate Instructional Tutor* — La Jolla, CA | *March 2024 – June 2024*

- Held 84 hours of one-on-one help sessions in an Intro to Java course, helped 80+ students, gave valuable feedback and insight to Professor and TAs, and evaluated programming assignments and tests
- Provided student level insight to improve course communication, learning, and tests

Snohomish School District *Technology Department Intern* — Snohomish, WA | *June 2021 – Sept. 2021*

- Prepared, fixed, and updated ~10,000 laptops across 15 locations, requiring schedule flexibility
- Learned professional teamwork and communication on a team of multiple skill sets and career places such as interns, IT professionals, and administration
- Designed automated spreadsheets to organize internal data in order to improve workflow and ease of communication

ACTIVITIES AND PROJECTS

Key Projects

- **GMTK GameJam**: Worked in a small team to build a prototype game within 48 hours using the Unity game engine in C#
- **Pantry Pal**: Developed an app using ChatGPT, Whisper, and DALL-E APIs, creating recipes from voice input into the app and storing account data via a MongoDB database
- **COVID ML Project**: Leveraged scikit-learn and Gaussian Mixture Model (GMM) clustering to extract insights from a large COVID-19 dataset

Club President & Esports Player — Triton Splatoon — *Sept. 2022 – Present*

- Earned one of the four spots on the CCA Season 4 Division 4 All-Div team (the equivalent of an All-Star Team)
- Won the Collegiate Championship over 130+ teams across the country, CCA Season 5 Division 1 Winner
- Organizing tournaments, events, and hangouts for an organization of ~150 students

Interests: Human Learning & Education, Using AI as a tool, Data Science, Game Design & Development, Programming, Baseball, I love animals like Dogs, Cats, Sea Creatures, Habits and Habit Formation, Sleep Research, Composing, Playing and Enjoying Music, Writing