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SUMMARY

Data-driven and empathetic student with a foundation in Data Science, Machine Learning, and user-centered design. Experienced in assessing problems, designing user-centered solutions, and advocating my ideas to stakeholders. Skilled in data management, automation, and workflow optimization to support decision making. Hands-on experience creating full-stack applications and enhancing accessibility in academic and operational settings. Able to synthesize and communicate actionable insights, with a commitment to continuous learning and an ability to collaborate with others to solve problems.

EDUCATION

University of California, San Diego
BS, Cognitive Science Machine Learning and Neural Computation
Computer Science Minor   September 2022 - June 2026
- 3.81 GPA | 5x Provost Honors

Relevant Coursework:
| Data Structures & OOP | Computer Organization and Systems Programming | Discrete Mathematics | Probability | Math/ Algorithm & Systems Analysis | Supervised Machine Learning Algorithms | Machine Learning II | *Planned*: Advanced Data Structures | Neural Networks and Deep Learning | Advanced Machine Learning |

WORK/TUTORING EXPERIENCE

Academic Achievement Hub, La Jolla, California   **12/2023-Present**
Data Management Assistant
- Developed automated processes for managing tutor data, schedules, and calendars, reducing manual data entry time by 90%
- Built data pipelines and dashboards to inform decision-making, targeted outreach, and funding strategies
- Created scripts to streamline information retrieval, facilitating faster decision-making for users

Computer Science Department @ UCSD, La Jolla, California   **05/2023-03/2024**
Tutor
- Conducted office hours, providing individualized code review and technical support
- Evaluated and improved course materials based student-centered feedback

Computer Engineers of the Next Generation (CENG), Los Altos, California   **08/2020-06/2022**
Tutor (2020), VP of Operations and Head Teacher (2021), President (2022)
- Completed over 200 hours of tutoring for Scratch, Javascript, Python, and Java with a focus on accessibility and engagement
- Pioneered, designed, and implemented a Java curriculum. Led a team of tutors to teach it for the first time
- Led team meetings and instructional workshops, including two years of Hour of Code sessions
- **Awards:**
  - **Presidential Service Volunteer Award (Silver)**
  - **Teacher of the Year**

RESEARCH/PROJECT EXPERIENCE

Computer Science Department @ UCSD (Niema Moshiri), La Jolla, California   **03/2024-06/2024**
Research Assistant
- Conducted research in computational biology, exploring probabilistic models, network structures, and parameter optimization
- Authored a pre-print on enhancing accessibility in epidemic simulation analysis, focused on improving user-friendliness in creating and analyzing complex epidemic simulations [Read here]

Personal Projects:
- **Scheduling and Information Retrieval Program**: Designed a program to streamline scheduling and data access for a tutoring center, improving efficiency for staff and students. Currently building a MongoDB-backed application with an HTML, CSS, and JavaScript front end, gaining hands-on experience in full-stack development and user experience.
- **Self-taught HTML and CSS**: Designed and coded a personal website from scratch

Campus Involvement:
- **Representative, Revelle College Executive Committee**: Invited as a student representative to contribute to college governance and decision-making.

SKILLS

Research and analysis: | Requirements Analysis | User-Centered Design | Qualitative and Quantitative Methods | Literature Review | Data Management | Data Cleaning & Processing | Data Visualization | Research Communication | Iterative Testing |
Technical: | Excel | Google Sheets, Scripting | Java | Python (pandas, matplotlib, seaborn, scikit learn, numpy) | Javascript | HTML | CSS | Git | Github | IDEs | Debugging | Data Structures | Scripting | MongoDB
Communication & Leadership: | Curriculum Design | Code Review | Empathy-Driven Instruction | Project Management | 1:1 and Group Tutoring |