

# Jordan Ruggles

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San Diego, CA 92122



## EDUCATION

**UC San Diego** (09/2021 – Present)

**GPA:** 3.886, **Expected:** 06/2025

**Major:** Math-Computer Science

**Minors:** Urban Planning; Dance

**Honors:** IEEE–Eta Kappa Nu

Muir Caledonian Society

### Coursework:

- Algorithms
- Computation Theory
- Computer Organizations & Systems Programming (*Tutor*)
- Data Structures (*Tutor*)
- Calculus
- Enumerative Combinatorics
- Mathematical Reasoning
- Modern Applied Algebra
- Modern Cryptography
- Number Theory
- Numerical Analysis
- Optimization Methods for Data Science
- Statistical Methods
- Advanced GIS
- Transportation Planning
- Public Transportation



## TECHNICAL SKILLS

Java, JUnit, JDB, C++, HTML, CSS, JavaScript, React, Python, Sage, Jupyter Notebooks, C, Assembly, GDB, Kotlin, Jetpack Compose, Git, Vim, Android Studio, MATLAB, Microsoft Office, Google Workspace, LaTeX, ArcGIS Pro



## OBJECTIVE

Earnest UCSD graduating senior seeking to explore fields beyond computer science through academic and entry-level positions. Ready to apply programming and analytical skills sharpened by learning, practicing, and teaching. A punctual communicator who values the diversity of ideas and experiences present in collaborative settings. Desiring the challenge of complex problems to propel human and societal progress while gaining valuable experience in preparation for future career opportunities.



## PROFESSIONAL EXPERIENCE

**San Diego Supercomputer Center Intern** (06/2023 – Present)

- Collaborating with a rotating team of developers to modernize an Alzheimer's research database, built with React, SQL, and Go.
- Frequently transitioning between different areas of development, creating and integrating new front-end UI elements to best fit the evolving needs of stakeholders.
- Communicating with developers in daily meetings and pair programming sessions to solve complex problems.
- Researched and experimented with code to learn mobile app development and the capabilities of Kotlin.

**CSE Tutor** (09/2022 – Present)

- Aiding students in completing and debugging programming assignments via one-on-one tutoring and class discussion boards.
- Deepening familiarity with and understanding of Java and C.
- Communicating common questions from students to instructors, adapting to students' learning to enable and ensure success.
- Applying prior knowledge and problem-solving skills from previous classes to guide students through debugging code and contextualize course concepts in the assignments.



## PROJECT EXPERIENCE

**Bicycle Infrastructure Analysis - Denver, Colorado**

Designed a poster in ArcGIS Pro, summarizing the distribution of bicycle infrastructure in maps and comparing against census income data in charts. Combined results with redlining research to assess the equitability of the distribution of Denver's bicycle network.

**Elliptic Curve Cryptography Lecture**

Thoroughly analyzed research papers and applied communication skills from tutoring to synthesize an introductory lecture on Elliptic Curves over Non-prime Finite Fields. Developed a complementary problem set to gauge student understanding of the material.



## HOBBIES

**Dance** (2015 – Present)

Building a strong, collaborative community with ensemble, performance, and social dances at UCSD and across San Diego. Always willing to dive into new styles of movement and thought.

**Taekwondo** (2011 – Present)

Earned a 3rd Degree Black Belt through physical and mental discipline and mastery of technique. Served as an assistant instructor, leading classes to teach and train new students.