

# Kevin Loritsch

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## Education

### University of California - Riverside

Riverside, California

BS in Computer Science, Expected Graduation December 2026

September 2023 – Present

- Chancellor's Scholar, 4.00 GPA
- Specialized Coursework: Operating Systems, Parallel Programming, Automata and Formal Languages

## Projects and Experience

### Computer Science Education Research Assistant

University of California - Riverside

Research Assistant | Data Analysis

May 2025 – Present

- Authored abstract and poster presentation analyzing 500+ student-created study sheets to assess impact on learning outcomes and academic performance
- Engineered end-to-end data pipeline using **Python**, **Pandas**, **Matplotlib**, and **Scikit-Learn** to extract, clean, and analyze study behaviors
- Collaborated on research methodology design, defining classification schema for categorizing study materials

### Undergraduate Learning Assistant

University of California - Riverside

Tutor | C++ Instruction

October 2024 – Present

- Facilitated instruction in foundational **C++** courses through weekly labs and 1:1 tutoring, reinforcing concepts in pointers, data structures, and debugging
- Delivered 12+ hours/week of student support, improving retention and performance for classes of 100+ students
- Enhanced programming proficiency by guiding students through coding assignments and debugging strategies

### ACM Spark Project Lead

University of California - Riverside

Project Lead | Web Development

June 2024 – Present

- Directed front end development projects, coordinating with on campus organizations to create **FIGMA** designs
- Led teams of 10+ students as Scrum Master, facilitating sprint planning, code reviews, and **AGILE** development
- Delivered production-ready websites using **React**, **Tailwind**, and **HTML**; projects include ULA, PTSO, and Aviat'R

### Natural Language Processing Research Assistant

University of California - Riverside

Research Assistant | Biomedical NLP

October 2023 – May 2025

- Annotated clinical text datasets for negation and hedge detection, supporting biomedical NLP model development
- Built analysis scripts in **Python** to compare annotation quality, track progress, and optimize workflow efficiency
- Completed CITI training; contributed to ClinScope corpus development

### Data Structures and Algorithms Grader

University of California - Riverside

Grader | C++ Assessment

October 2024 – Present

- Evaluated 13+ programming assignments for 500+ students in **C++** data structures and algorithms
- Held weekly office hours to clarify core concepts such as B-Trees, graph theory, and asymptotic analysis
- Managed 5-person dev team building a class learning platform, from Figma prototype to deployment

### Parallelized Chess Minimax

Personal Project

AI Chess Engine | C++, pthreads

November 2024

- Developed parallelized AI chess engine implementing minimax with alpha-beta pruning
- Optimized performance with **C++** and **pthreads**, achieving 15x runtime improvement over sequential baseline

### ACM Vice President of External Affairs

University of California - Riverside

Student Leadership | Outreach & Mentorship

May 2025 – Present

- Launched outreach initiatives including weekly tabling, coding workshops, and mentorship programs
- Designed peer mentorship program pairing 25+ first-year students with experienced ACM mentors

### Eagle Scout Project

Community Service

Educational Video Resources | Eagle Scout Awarded

May 2021

- Directed service project producing educational video resources for local elementary schools
- Bridged digital learning gaps for parents, teachers, and students during COVID-19 remote instruction

## Technical Skills

**Languages:** C++, Python, JavaScript, TypeScript, React, HTML, CSS, SQL, Ruby

**Developer Tools:** Git, Github, GoogleTest, Github Actions, Figma

**Technologies:** Next.js, Ruby on Rails, TailwindCSS, Scikit-Learn, Pandas, Matplotlib, pthreads

**Management:** Scrum, Github Projects, AGILE Development