

Luke Files

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EDUCATION

San Diego State University

San Diego, CA

Bachelor of Science in Computer Science

Aug. 2023 – May 2026

- **Courses:** Ethics & AI, Machine Learning, Operating Systems, UNIX System Admin, Database Theory Implementation, Computer Architecture

EXPERIENCE

World Computing Organization Secretary

January. 2025 – Present

San Diego State University

San Diego, CA

- Managed club operations and communications for the World Computing Organization, coordinating events, meetings, and member outreach to foster a collaborative technical community.
- Organized and facilitated professional development workshops, including resume-building and LinkedIn optimization sessions that helped members strengthen their career readiness.
- Helped lead development of a semester-long AI Basketball Scout project, guiding members in applying computer vision and web scraping techniques to generate data-driven game predictions using real sports footage and statistics.

Software Engineer Intern

Sep. 2023 – Present

Sage Oak Charter School

Redlands, CA

- Created scripts using JavaScript to organize data for schoolwide field trips and verify the data accuracy.
- Wrote unit and integration tests to improve code reliability and reduce bugs within verification.
- Collaborated with senior engineers in code reviews, feature design, and performance optimization to ensure scalable, maintainable solutions.
- Contributed to documentation and streamlining workflows.

College Student Instructor

Sep. 2023 – Present

Sage Oak Charter School

Redlands, CA

- Instructed and mentored 200+ college students in Java and Python, covering core programming concepts, object-oriented design, and algorithmic problem-solving.
- Developed and delivered comprehensive lesson plans and coding labs introducing advanced topics such as foundational data structures, increasing students engagement.
- Assessed student performance through hands-on projects and coding challenges, providing individualized feedback to strengthen programming proficiency and computational thinking skills.
- Created custom JavaScript scripts to organize and compile student data for other instructors, automating grading workflows and improving the efficiency of classroom management processes.

PROJECTS

Aztec AI Basketball Scout | *Python, Java, Django, FastAPI*

December 2024 – Present

- Developed an AI-powered basketball scouting system leveraging computer vision and web scraping to collect player performance data and generate predictive game insights
- Implemented machine learning models to analyze visual and statistical inputs, enabling automated evaluation of player tendencies and game outcomes from real-world footage

What's The Move in SD | *Java, HTML, CSS, JavaScript, Spring Boot*

December 2024

- Developed an interactive web application in Java featuring dynamic sorting mechanics, with a user interface prototyped and designed in Figma
- Implemented web scraping to aggregate local events in and around San Diego State University, enabling sorting by distance, activity type, and additional filters for enhanced usability

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, HTML/CSS, MySQL

Frameworks: React, Node.js, Django, FastAPI

Developer Tools: Git, VS Code, Visual Studio, IntelliJ, Jupyter, Anaconda

Libraries: pandas, NumPy, Matplotlib, scikit-learn