

LUCAS COLLINS

Orange, CA

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EDUCATION

University of San Diego

B.S. Computer Science

Aug 2022 – May 2026

San Diego, United States

John Cabot University

Semester Study Abroad

Aug 2024 – Dec 2024

Rome, Italy

COURSEWORK / SKILLS

- Computational Problem Modeling
- Algorithms
- Artificial Intelligence
- Computer Systems
- Data Structures
- Operating Systems
- Object-Oriented Software Design
- Probability and Statistics

PROFESSIONAL EXPERIENCE

Training Lead Technician

University of San Diego ITS Help Desk

Nov 2024 – Current

San Diego, CA

- Responsible for overseeing the training process and ensuring adherence to training standards.
- Create training materials, lead monthly trainings, plan “Netweek”, and track training progress.
- Regularly review and update training procedures based on new challenges or evolving tech skills.

Accounting & Administrative Assistant

Pacific West Asset Management

Jun 2023 – Jan 2025

Costa Mesa, CA

- Assisting with accounts payable and accounts receivable processes.
- Managing office correspondence and handling administrative tasks.
- Handling financial record-keeping and data entry.

ITS Student Technician

University of San Diego ITS Help Desk

Aug 2023 – Nov 2024

San Diego, CA

- Assist faculty, staff, and students with technical issues and provide timely resolution to ensure minimal disruption to their work.
- Develop and maintain documentation for troubleshooting procedures and system configurations.
- Provide technical support for various software applications and assist users with account management.

PROJECTS

Physical Grid-Based Navigation System | Python, Pololu, Raspberry Pi

Feb 2025

- Developed as a team a grid-based navigation system on Pololu Raspberry Pi, implementing A*, UCS, and Greedy Best-First Search for pathfinding with sensor integration and hardware deployment.
- Conducted testing, debugging, and performance analysis, culminating in a live demonstration of the system.

File Compressor | Java

Mar 2024

- Developed a Java-based file compression tool to reduce storage usage by implementing efficient encoding algorithms.

Wordle | Python

Apr 2023

- Developed a Python-based *Wordle* recreation, featuring word validation, color-coded feedback, and a user-friendly command-line interface.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Arduino, Bash, AWK

Developer Tools: VS Code, IntelliJ Idea Ultimate

Technologies/Frameworks: Windows, Linux, GitHub, Gradle, Matplotlib

Soft Skills: Adaptable, Dependable, Leadership, Problem-Solving, Teamwork, Time Management

EXTRACURRICULAR

Association for Computing Machinery (ACM)

Jan 2023 – Current

Active Member

San Diego, CA

- Promote knowledge and professional development in computer science, software development, and computing applications through workshops, presentations, and educational events.
- Advocate for the ethical use of technology and its positive impact on society.