

# JADEN ROSOFF

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## EDUCATION

**University of Utah, Bachelor's of Science in Computer Science**

**December 2025**

Salt Lake City, UT  
Mathematics Minor

### Relevant Coursework

- Object-Oriented Programming, Algorithms and Data Structures, Software Practice, Scientific Computing, Algorithms, Computer Organization, Database Systems, Computer Systems, Human-Computer Interaction, Introduction to Computer Graphics, Ethics in Computing, Visualization for Scientific Data, Web Development I, Capstone Design and Project, Practical Machine Learning
- Linear Algebra, Discrete Mathematics, Calculus 3, Foundations of Analysis, Applied Statistics

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## PROJECTS

### Senior Capstone: Jeopardy! Web Application

**January 2025 – December 2025**

- Designed a responsive Jeopardy-style web application using React.js with an intuitive user interface.
- Collaborated with a full-stack team to integrate a FastAPI backend with SQLite for seamless data flow.
- Engineered features including a dynamic board editor, single-player logic, and a user-driven rating system.
- Managed end-to-end deployment via fly.io to maintain a live production environment for public access.

### Web Development Learning Management System

**January 2025 – April 2025**

- Developed a robust MVC architecture using Django and Python to manage complex academic workflows.
- Implemented RESTful APIs (POST/GET/PUT) to automate content population and real-time app updates.
- Designed a secure, role-based access control system for specialized student and instructor dashboards.
- Deployed the platform on AWS cloud infrastructure to ensure high availability and global scalability.

### Database Learning Management System

**March 2024 – April 2024**

- Translated complex requirements into optimized Entity-Relationship Diagrams to define data structures.
- Authored advanced SQL scripts to create relational tables and secured backend web server integration.
- Optimized MySQL queries to handle high-frequency data transactions and improve retrieval speeds.

### Garage Pi (IoT Project)

**August 2021 – Present**

- Engineered an IoT solution using Raspberry Pi and switch controllers to automate garage operations.
- Developed a real-time LED dashboard by consuming public APIs for weather, surf, and tide metrics.
- Programmed Python logic to handle hardware interrupts and asynchronous data fetching seamlessly.

### Foundations of Analysis Curriculum Design

**August 2022 – December 2022**

- Authored a model curriculum for Real Analysis, focusing on rigorous proofs and theoretical continuity.
- Synthesized mathematical theories into structured lesson plans to improve undergraduate student outcomes

### Personal Website

**October 2025 - Present**

- Designed and launched a professional portfolio site using React.js to showcase technical skills.
- Configured automated hosting and delivery pipelines via AWS to ensure high uptime and global content delivery.

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## SKILLS

- **Languages:** Python, JavaScript, Java, C#, C, C++, Matlab, R, SQL, Typescript
- **Engineering Principles:** Object Oriented, Unit Testing, Concurrency
- **Other:** Linux, Git, Terminal Editors, Visual Studio Code, Raspberry Pi, RStudio, QT Creator, MIPS, Assembly, MARS, JSON, HTML, CSS, ParaView, WebStorm, Pycharm, Agile, Scrum, React, Node, Django, AWS