

# JADEN CASTLE

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## EDUCATION

UNIVERSITY OF COLORADO BOULDER

**Bachelor of Science Information Science, m. Creative Technology Design**

GPA 3.4 - Research and Scholarship Award

COURSERA, **Certificate Google UX Design Professional**

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## WORK EXPERIENCE

### WEB DEVELOPER & DESIGNER

*CONTRACT | Jan 2025 - May 2025*

Anxiety Force

- **Collaborated** with a **cross-functional** research team to plan, design, and deploy a web companion for an adolescent anxiety app, **improving access to therapeutic resources** and supporting curriculum delivery.
- **Revamped the organization's outdated website** using **responsive design practices**, resulting in a **35% increase in average session duration** and a more intuitive user experience across devices.
- **Led the usability evaluation process** by collecting user feedback and identifying **accessibility and content issues**, resulting in **targeted improvements** that strengthened alignment with therapeutic goals.
- **Presented design concepts and development updates** to **stakeholders** throughout the project lifecycle, ensuring alignment with therapeutic goals and **accelerating approval timelines by 25%**.
- **Conducted structured user testing** and translated feedback into **actionable design and development changes**, increasing **task completion rates by 30%** and improving **user satisfaction scores**.

### RESEARCH ASSISTANT

*May 2023 - Jan 2024*

NCWIT Lab

- **Conducted and transcribed 40+ in-depth interviews** with first-year female computer science students, performing **qualitative coding and thematic analysis** that uncovered **key barriers to retention and motivation**, informing **targeted institutional support strategies**.
  - **Managed participant recruitment, scheduling, and data collection** across **20+ universities**, maintaining **100% accuracy in consent documentation** and ensuring **full IRB compliance** throughout the study lifecycle.
  - **Synthesized qualitative and quantitative data** using **Miro for visual mapping** and **Excel for survey analysis**, enabling **clearer pattern recognition** and contributing to a **40% increase in engagement** from partner institutions and educators.
  - **Collaborated with senior researchers** to design and refine **mixed-method survey instruments and interview protocols**, enhancing **data quality and participant clarity**, which improved **response rates by 15%**.
  - **Led data synthesis and presentation efforts** by organizing findings into **actionable reports and visualizations**, supporting **academic dissemination** and helping influence **policy recommendations** on gender inclusivity in computer science departments.
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## PROJECTS

### SENIOR CAPSTONE: AI-POWERED RESUME TAILORING WEBSITE

*Jan 2025 - May 2025*

#### Frontend Developer

- Developed and designed a **responsive front-end interface** using React and React Router, enabling users to upload, parse, and interact with resumes in multiple formats, **improving accessibility and user engagement**.
  - Integrated **real-time AI-powered resume analysis features** with OpenAI API responses, creating dynamic UI components that highlight skill gaps and match scores, **enhancing user resume tailoring accuracy** and increasing job application confidence.
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## TECHNICAL SKILLS & PROFESSIONAL ABILITIES

**Research Methods:** Qualitative Analysis (Interviews, Survey Design, Ethnography), Quantitative Analysis, Usability Testing, A/B Testing, Heuristic Evaluation, Experiment Design, Social Network Analysis, Miro

**Design & Prototyping:** Wireframing & Prototyping (Figma, Adobe XD), User Journey Mapping, Information Architecture, Interaction Design, Accessibility (WCAG standards), UI/UX Best Practices, Adobe Creative Cloud

**Development:** HTML5, CSS3, JavaScript (ES6+), React, React Router, Axios, Context API, Flask, REST APIs, Responsive Design, Git/GitHub, SQL, SQLite, JSON, API Integration, VSCode, Jupyter Notebooks, Wordpress

**Data & Visualization:** Python (Pandas, NumPy, Matplotlib), Data Cleaning & Analysis, Data Visualization (Tableau, Power BI, Statistical Analysis, Dashboard Design, Excel (PivotTables, VLOOKUP))