

Jessica Trans

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EDUCATION

University of California, Davis

Sep 2020 - Jun 2024

Bachelor of Science in Computer Science | Minor in Asian American Studies

- Coursework: Object-Oriented Programming, Data Structures, Computer Architecture, Computer Network, Operating Systems, Machine Dependent Programming in x86 Assembly, Algorithm Design and Analysis, Web Programming

WORK AND LEADERSHIP EXPERIENCE

Software Developer Intern

Apr 2023 - Sep 2024

UC Davis IET Enterprise Student Applications

Davis, CA

- Assisted with a backlog of .NET technical projects and web development tasks such as redesigning OASIS, updating course catalog data for XML file generation, and populating degree audit interface used by advisors in 200+ programs
- Streamlined workflow using Jira/Confluence for task communication, SourceTree/GitHub for Git repository management and CI/CD pipelines; database updates using Microsoft SQL; shadowed small-scale projects in DevOps

MESA Pre-College (Middle and High School) Outreach Program Assistant

Mar 2023 - Sep 2024

Mathematics Engineering Science Achievement (MESA)

Davis, CA

- Proctored 10+ schools participating in MESA Regional Python Coding Competitions and MESA Day, ensuring smooth operations and effective communication with participants, parents, and staff members; provided technical support
- Organized an HTML, CSS, and JavaScript Web Development Bootcamp for high school students in the Northern California region; created data entry reports using R and LaTeX, instructional materials, and project guidelines

PROJECTS

Redesign OASIS — **Full Stack Project**

Jun 2023 - Sep 2024

- Enhanced the user experience of the Online Advising Student Information System (OASIS), a critical tool for UC Davis students and advisors; implemented improvements to optimize the tools and services for superior client experience
- Designed and implemented workflow step and flex table control; improved the visual appeal and functionality of report panel tables by using the data table factory method to parse and filter raw data into string data for the data tables
- Utilized ASP.NET, C#, HTML, SASS, Figma to drive a seamless UX/UI design process, resulting in a user-friendly interface

DUEN Website — **Davis Undergraduate Engineering Network**

Oct 2023 - May 2024

- Enhanced the DUEN club website (<https://duendavis.vercel.app/>) with regular content updates and bug fixes
- Utilized Next.js and React on Vercel, resulting in a 10% increase in user engagement for UC Davis students

Air Hockey Table — **Davis Undergraduate Engineering Network**

Apr 2023 - May 2023

- Collaborated with various STEM majors to design and build the construction project within a 3-week time limit
- Worked with 16 engineers; used Arduino Mega compatible with Python RGBmatrixPanel library for scoreboard display

Daily MOOD — **Full Stack Project for CodeLab**

Feb 2023 - May 2023

- Developed a user-centric mobile application, with React Native, to help empower UC Davis students to track their moods, set self-care goals, promoting mental health and well-being; conducted user research and testing
- Used Insomnia to test REST APIs to MongoDB; backend uses Node.js, Express.js, Mongoose to interact with the database

SKILLS

Languages: C# C/C++ Python HTML5 CSS/SASS JavaScript Java RISC-V x86/x64 R XML Swift

Frameworks/Libraries: ASP.NET React.js/React Native Bootstrap Node.js SQL/SQLite MongoDB SwiftUI

Tools: Visual Studio XCode UNIX/Linux Confluence Jira SourceTree Git/GitHub Figma Blender Aseprite