

ZEVEN A. VIDMAR BARKER

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EDUCATION

University of California, San Diego (UCSD)

Sept 2018 – Jun 2022

- B.S. in Mathematics – Computer Science with Minor in Cognitive Science.
- Undergraduate Coursework: Algorithms, Software Engineering, Programming Languages, Interaction Design, Data-Driven UX, Data Science, Supervised Machine Learning, Graph Theory, Physical Modeling

EXPERIENCE

Circle K International, California-Nevada-Hawaii District

Rancho Cucamonga, CA

Project Lead (MRF Portal)

May 2021 – Aug 2022

- Streamlined project's StartInfinity workflow, documenting 15+ improvements to be made towards a soft release and improving task prioritization for team of 3 onboarding developers
- Better aligned user permissions with district organizational structure by redesigning how views and actions available to 10+ distinct user groups are authorized with ExpressJS
- Enhanced communication and directly observed work of 5+ key stakeholders, building infrastructure for beta testing and developing 2 new user-focused features for the project's latest roadmap

Curricula Development & Teaching Assistant (TechX)

Feb 2021 – Sep 2021

- Served as a founding member of the initiative, collaborating cross-functionally with 11 team leads to provide course instruction and materials in an online learning environment catering to students across California, Nevada, and Hawaii
- Formulated curricula for 3 project-based courses, helping university students gain technical skills in UI/UX Design (foundational design thinking), Web Development (HTML, CSS, Javascript), and Data Science (Python, Data Visualization)
- Managed course forms, assignments, student engagement, 10 lab sessions, and 28 lectures across all 3 courses, fostering an inclusive learning environment for the 40+ students registered with additional support provided via Discord

Software Developer (MRF Portal)

May 2020 – Apr 2021

- Continued development of MEAN-stack web application tracking community service and member data for 70+ collegiate clubs by engaging in code reviews, standups, and pair programming exercises within a biweekly scrum framework
- Reduced tracked bugs by 58% overall across 6-member team, using Git to resolve 5+ low to medium-risk front-end issues
- Refactored codebases to achieve form data validation and persistence across different pages, leveraging Angular, TypeScript, Express, and Node.js to ensure user submissions are routed securely to MongoDB backend

OTHER PROJECTS

Personal Portfolio | HTML, CSS, JS, Figma | [Github](#)

Feb 2024

- Built a responsive project website from scratch, incorporating Material Design's grid system and utilizing BEM and SCSS methodologies to encourage code quality and maintainability
- Designed detailed wireframes and mockups, applying design principles to enhance site visitor experience, and translating designs into fully functional static web pages

YouTube Spaces | Figma | [Medium](#)

Mar 2023

- Collaborated with 2 other designers on a 3-month long Data-Driven UX case study project, envisioning a safe, collaborative space for content creators as a mock extension of YouTube
- Conducted thorough target user research, with 20 survey responses and 4 user interviews, receiving iterative feedback to produce a final working prototype complete with 5 screens

Computer Vision on Online Chessboards | Python, Numpy, Scikit | [Github](#)

Jun 2022

- Constructed Linear and Ridge Regression models while four teammates trained SVMs, Neural Networks, and Decision Trees, achieving a test accuracy of 98.08% with CNN model
- Implemented comprehensive data preprocessing pipeline, handling a large dataset of 100,000 chessboard images

AWARDS

- **Exemplary Student Employee of the Year Award (2022):** In recognition of outstanding customer service, quality of work, initiative, teamwork, and valuable contributions to Warren Residential Life

LANGUAGES AND TECHNOLOGIES

- > Javascript | Typescript | HTML/CSS | C++ | Python | Java | Angular | Docker | Express | MongoDB | NodeJS | MATLAB
- > Visual Studio Code, Git Version Control, MongoDB Compass, Figma, Chrome DevTools, Microsoft Office Suite, Adobe XD