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Summary of Qualifications

- Skilled in **UI/UX design**, creating intuitive and user-centered digital experiences
- Proficient in **HTML/CSS** for building responsive and accessible web designs
- Developed comprehensive full-stack applications with **Firebase** integration and AI-powered features
- Strong foundation in design principles including typography, color theory, and layout composition
- Developed multiple responsive websites with cross-browser compatibility
- Experience with Firebase services including **Firestore**, **Authentication**, and **real-time notifications**
- Proficient in **React.js** for developing interactive and efficient web applications
- Designed and implemented user-friendly interfaces that enhance engagement and user satisfaction
- Experience with design software including **Figma** for wireframing and prototyping

Key-Skills

Website Development	Progressive Web Apps	UI/UX Design	Figma
HTML/CSS	Responsive Design	Firebase Developement	React.js

Technical Skills / Certifications & Specializations

Programming Languages: C++, Python, JavaScript, C#, C, Swift, HTML/CSS, Node.js
Database: SQL, Pandas, BigQuery, Firestore (NoSQL)
Software & Tools: GitHub, VSCode, React.js, Hugging Face, AWS (S3, Lambda, Amplify), RESTful APIs, Figma, Docker, Godot, Zapier, HubSpot, WordPress, Firebase SDK, Google Gemini API, Progressive Web App (PWA) tools
Certifications & Specializations: Kaggle - SQL, Advanced SQL, Python, Machine Learning, Data Visualization
IBM AI Developer, AWS Fundamentals

Work Experience

IT Solutions Developer — April 2025 – Present
Leading Edge Construction Services — *Hybrid*

- Redesigned company website on Squarespace and developed comprehensive integration solutions between **QuickBooks Desktop** and Procore construction management platform, streamlining financial data flow and reducing manual data entry errors
- Designed and implemented standardized project scheduling procedures using **Microsoft Project**, transitioning from Google Sheets-based workflow to professional project management standards with automated data synchronization
- Engineered automated workflow integration between Microsoft Project and **Procore**, creating systematic distribution protocols for project schedules and updates to field workers, improving on-site coordination efficiency
- Conducted presentations to office teams on AI applications and workflow automation opportunities, analyzing existing business processes to provide technology solutions that enhanced operational efficiency across multiple departments

Intern Solutions Developer — May 2024 – July 2024
Leading Edge Construction — *Los Banos, CA*

- Conducted presentations to the office team on **AI applications** in the workplace; currently discussing **AI integration** into their workflow.

Freelance Website Redesign & Development — January 2025 – March 2025
Mitchell First Circuit CASA — *Remote*

- Redesigned and developed a responsive website using HTML, CSS, and JavaScript, improving accessibility and user experience.
- Used Figma to design the site's layout and visual elements, ensuring a user-friendly experience.
- Enhanced navigation and added interactive elements to effectively engage volunteers and donors.
- Created a video in Adobe After Effects to showcase the redesign process.

Intern Solutions Developer — May 2024 – July 2024
Leading Edge Construction — *Los Banos, CA*

- Conducted presentations to the office team on **AI applications** in the workplace; currently discussing **AI integration** into their workflow.

Student Assistant <div align="right">**July 2023 – July 2024**</div>

Mail and Document Services <div align="right">*University of California, Merced, CA*</div>

- Worked with a team to manage interoffice and postal mail delivery, delegate tasks for efficiency, log incoming packages, and maintain printer rooms by refilling paper and fixing machines.

Intern Application Developer <div align="right">**November 2023 – April 2024**</div>

Equity Justice and Inclusive Excellence Department at UC Merced <div align="right">*University of California, Merced, CA*</div>

- Collaborated with a team to develop an interactive learning module app for the EJIE department using **Flutterflow**, featuring **interactive tutorials**, **timed readings**, **linked articles**, **YouTube API integration**, and **quizzes**.

Intern Web App Developer <div align="right">**August 2023 – December 2023**</div>

Sunburst Agri Biotech Solutions LLC <div align="right">*University of California, Merced, CA*</div>

- Designed and implemented a **computer vision model** utilizing **Convolutional Neural Networks (CNN)** to classify pathogen types with high accuracy. Trained the algorithm on a **diverse dataset** to enhance reliability and consistency.
- Integrated image processing and machine learning techniques into a **cross-platform application** for Sunburst Agri Biotech Solutions LLC, delivering a **user-friendly web and desktop solution** for real-time pathogen identification.

Projects

Pantry Pal- Smart Recipe Generator | *React.js, CSS3, JavaScript, Firebase, Google Gemini API, PWA* <div align="right">**June 2025**</div>

- Developed a comprehensive full-stack pantry management and AI-powered recipe generation application using React.js with Firebase backend integration for real-time data synchronization
- Implemented Firebase Authentication with Google OAuth integration and role-based access control, ensuring secure user sessions and data privacy
- Designed and deployed Firestore NoSQL database architecture with optimized queries, automated data cleanup, and real-time notifications for expiring ingredients
- Integrated Google Gemini AI API for intelligent recipe generation based on available ingredients, with dynamic serving size adjustments and cooking instruction optimization
- Built advanced unit conversion system supporting cross-category conversions (volume to weight) with ingredient-specific density calculations for accurate recipe scaling
- Created responsive Progressive Web App (PWA) with offline capabilities, custom notifications, and mobile-optimized interface ensuring cross-platform compatibility
- Engineered comprehensive inventory management with trash/restore functionality, expiration tracking, and automated history logging for user activity analytics

Secret Page | *React.js, HTML5, CSS3, JavaScript* <div align="right">**December 2024**</div>

- Developing an interactive and responsive **Secret Page** using **React.js** with **useState hooks** for state management and a component-based architecture for modular and reusable design.
- Utilized **HTML5 and CSS3** for semantic structure, custom styling, animations, and responsive layouts, ensuring optimal user experience across devices.
- Implemented dynamic feedback mechanisms with JavaScript, including validation of puzzle inputs using regular expressions and programmatic comparison of user input against predefined solutions.
- Designed an interactive grid layout with **responsive CSS media queries** and flexible layouts, adapting seamlessly to various screen sizes.
- Integrated **problem-solving logic** to dynamically reset and reinitialize grid states, enhancing usability and user engagement.

Personal Website | *AWS Amplify, React.js, GitHub, HTML5, CSS3, JavaScript* <div align="right">**November 2024**</div>

- Deployed and hosted the website using **AWS Amplify**, ensuring scalable, secure, and reliable performance.
- Implemented a multi-page structure featuring a **Resume**, **About**, and a **Secret Page** that highlights unique and imaginative content.
- Developed the website using the **React framework**, enabling a modern, responsive, and user-friendly design.
- Configured a GitHub repository for continuous deployment, automating seamless updates with every push to the main branch.
- Designed as a centralized hub to showcase professional projects and personal creativity.

AI Workflow Integration | *Zapier, ProCore, Quickbooks, DropBox* <div align="right">**May 2024**</div>

- Leveraged Zapier to streamline and automate office workflows, significantly enhancing **efficiency** and reducing manual task overhead.
- Collaborated with office staff to identify strategic integration points for AI, ensuring seamless adoption and optimizing **productivity**.

EJIE Learning App | *Flutter, FlutterFlow* **April 2024**
- Managed the development of an innovative learning module application focused on **Equity, Justice, and Inclusive Excellence (EJIE)**. Utilized Flutter and FlutterFlow for front-end design and Firebase for seamless back-end integration, enhancing user engagement.
- Incorporated diverse learning modules and interactive features, promoting **knowledge exchange**.

Plant Pathogen Classification | *Python, Pytorch, Tkinter, GitHub* **September 2023**
- Developed a computer vision classification algorithm using **Convolutional Neural Networks (CNN)**, transforming labeled images into actionable insights for Sunburst Agri Biotech Solutions LLC. Successfully implemented this into a desktop application.
- Utilized image processing and machine learning to accurately identify pathogen types, presenting results in a **user-friendly web application**.
- Trained the algorithm with a **diverse dataset** of pathogen images, ensuring unbiased data and consistent labeling.

Education

University of California, Merced **August 2020 – May 2024**

Bachelor of Engineering in Computer Science and Engineering, GPA: 3.66 *Merced, CA*

- **Relevant Coursework:** Software Engineering, Game Programming, Computer Graphics, Human-Computer Interaction, Data Structures, Object Oriented Programming, Vector Calculus, Statistics, Discrete Mathematics, Computer Vision