

ETHAN VASQUEZ

+1 480-717-7795 | ethankontakt@gmail.com | [LinkedIn](#) | [GitHub](#)

EDUCATION

Arizona State University

Bachelor of Science in Computer Science (Software Engineering)

Tempe, AZ

Aug. 2022 – May 2026

RELEVANT EXPERIENCE

Intelligent Recipe Recommendation Platform — PennyPantry

May 2025 – Present

Personal Project

Phoenix, AZ

- Built a ASP.NET Core web app that dynamically generates meal options by analyzing ingredient lists and matching them against a catalog of 5000+ recipes in PostgreSQL
- Designed RESTful APIs for querying recipes, ingredients, and nutrition
- Achieved 85% unit test coverage, reducing runtime errors by 30%, ensuring safety and reliability
- Implemented a recommendation system that suggests new meal options based on current ingredients and potential ones
- Employed app features with eco-friendly, budget-friendly cooking habits, promoting environmental sustainability

Capstone Project — Do Me A Favour Buddy

Aug. 2025 – Present

Arizona State University

Tempe, AZ

- Developed an AI-driven wellbeing application that personalizes acts of kindness using machine learning, psychological profiling, and user feedback
- Engineered a full-stack mobile and web platform with secure APIs, survey integration, and longitudinal user data tracking
- Created analytics and business dashboards with data visualization tools to monitor individual and organizational well-being outcomes
- Applied agile development and ethical AI practices to deliver a polished, thoroughly tested product

Pet Care System— BarkBase

May 2025 – Present

Personal Project

Phoenix, AZ

- Developed a service-oriented web application using Next.js and Supabase to manage pet profiles, securely store records, and schedule reminders for pet owners
- Integrated RESTful APIs to enrich user-created pet profiles with validated breed information, demonstrating cloud API consumption and interoperability
- Implemented secure authentication and role-based access, ensuring only owners can access pet records
- Enhanced functionality with AI integration, creating proactive care recommendations

Client Management System

June 2024 – Aug. 2024

HD Brow & SkinRx

Gilbert, AZ

- Delivered a JavaFX application with a layered MVC architecture and a PostgreSQL backend, allowing for scalable customer data management
- Designed and integrated a dynamic search engine supporting real-time queries and modifications by SQL superkeys
- Implemented secure authentication to mitigate risks of data leaks and to ensure protection of the client's data
- Built with CRUD operations and GUI integrations for efficient, user-friendly workflows

TECHNICAL SKILLS

Languages: C/C++, Java, C #, Python, JavaScript, HTML / CSS, PostgreSQL, JavaFX

Frameworks: React, React Native, .NET Core, Node.js, Next.js, Flask, JUnit

Developer Technologies: Supabase, Git, JUnit, VS Code, Visual Studio, IntelliJ

Skills: Data Structures & Algorithms, Object-Oriented Programming, Full Stack Development, Database Implementation, Software Architecture, Software Design

CERTIFICATIONS

Oracle Cloud Infrastructure AI Foundations Associate

Sept. 2025

Oracle

Cybersecurity Fundamentals

Oct. 2025

IBM SkillsBuild