

EKANSH ARORA

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EDUCATION AND AWARDS

Oregon State University, Corvallis

Graduating December 2027

BS in Computer Science | 3.85 GPA (Deans List)

- **Coursework:** Operating Systems 2, High-Performance Computer Architecture, Deep Learning, Linear Algebra
- **Clubs:** AI Club (Officer), Design for America (Project Lead)

Relevant Awards: 1st Place out of 71 teams at QuackHacks 2026, 1st Place out of 20 teams at Beaverhacks 2026

PROFESSIONAL EXPERIENCE

Graduate Student Assessment Platform

September 2025 - Present

Full Stack Developer | TekBots

- Designed and developed the entirety of a full-stack student evaluation platform for College of Engineering faculty, replacing fragmented manual tracking with a unified digital rubric and scoring system used by 20+ faculty members and over 80 students to provide performance data for ABET accreditation of the college
- Engineered a dynamic rubric-creation and evaluation dashboard using HTML, CSS, PHP, Javascript, and SQL, allowing administrators to create version-controlled scoring criteria and assign specific reviewers to student cohorts, cutting time-to-complete for evaluations by 50%

Digital POS & Inventory Cart System

July 2025 - September 2025

Full Stack Developer | TekBots

- Digitized a legacy paper checkout process by deploying and maintaining a custom cart system for electrical component sales, serving 1000+ users and converting 500+ active sessions into on-site transactions
- Built a Javascript based live-syncing cart editor via unique session codes, letting employees instantly retrieve, live-edit, and sum customer orders on-site, reducing average transaction time by 30%

TekBots Storefront Platform

April 2025 - June 2025

Full Stack Developer | TekBots

- Managed a 3-person team for the iterative development and maintenance of the TekBots digital storefront, utilizing the LAMP stack to support daily operations of a hardware storefront serving 1,200+ Engineering students
- Streamlined team collaboration by implementing containerization with Docker for quick-start local environments, and maintained a stable live main branch by running automated unit tests prior to merges and deployment
- Architected a comprehensive database normalization of the production MariaDB database to 3-NF, eliminating redundant dependencies and optimizing performance using views and triggers to ensure long-term scalability

PROJECT EXPERIENCE

Inventory Management System for Trading Card Retailers

April 2025 - Present

- Designed a production automation platform for trading-card commerce spanning a PostgreSQL card-data warehouse, marketplace data pipelines, a quantitative pricing engine, an analytics dashboard built in React (Typescript), and MCP support for LLM integration, running live against a 6,280-card inventory
- Developed an end-to-end inventory visualization and management tool, combining a React 19 dashboard featuring layered Recharts market graphs and a fully typed client with a custom 32-endpoint Flask REST API supporting server-side filtering, pagination, and on-demand WebP asset conversion to let sellers reliably view large inventories at once
- Built a multi-stage Azure CI/CD Pipeline with PR-gated test runs, automated Vercel deploys, and a scheduled daily contract canary against live third-party APIs that surfaces formatting changes, keeping web-scrappers working

Multimodal AI Field Support Assistant

April 2026 - May 2026

- Engineered a Gemini-powered multimodal repair assistant for semiconductor manufacturing equipment, turning a technician's photo and voice query into verbal instructions with annotated diagrams in under 30 seconds
- Implemented agentic retrieval (RAG) via Gemini function-calling and a chained prompt system and caching layer, letting the model pull from a local 1000+ page database of dense equipment manuals on demand without crowding its context window and caching commonly used documents, accelerating response times by 50%

SKILLS

Languages: Python, C, C++, Java, C#, PHP, Typescript, JavaScript, SQL (MySQL), R, Bash

AI & Machine Learning: Agentic Development (Claude Code), Agentic Loops, MCP, RAG, Context Engineering

Web & DevOps: React, Flask, Node.js, Bootstrap, HTML, CSS, REST APIs, MySQL, PostgreSQL, Database Design, Git, Docker, Azure Devops, Shell Scripting, Linux Kernel, Kernel Development