Vishwas Patel

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EDUCATION

University of California, Davis Davis, CA

B.S. in Computer Science (GPA: 3.94) *Expected Graduation: June 2027*

- **Relevant Coursework**: Object-Oriented Programming, Data Structures & Algorithms, Discrete Math, Problem Solving, Structured Programming, Calculus I–III, Linear Algebra

PROFESSIONAL EXPERIENCE

Development Engineer Intern @ City of Sacramento Dec 2024 – Present

- Developed the **Abandonment Proceedings PDF Generator**, automating creation and naming of **1000+ project PDFs** by extracting AP numbers and project names from Excel with Python, pandas, and openpyxl.
- Implemented **PDF generation with ReportLab** and optional ZIP packaging, reducing manual work to **minutes of processing**.
- Streamlined staff workflows by eliminating repetitive errors and showcasing how **data parsing, string manipulation, and automation** deliver measurable efficiency gains.

Freelance Software Developer Jan 2024 – Feb 2025

- Developed and launched **10+ responsive websites**, increasing client engagement by **35%**.
- Boosted startup traffic by **25%** through **SEO optimization** and modern UI/UX design.
- Delivered portfolio sites with **mobile-first principles**, ensuring seamless cross-device experiences.

Mechanical Engineering & CAD Intern @ Baps Charities Jun 2023 – Aug 2023

- Designed **3D CAD models** in Fusion 360 for the world's **second-largest Hindu temple**, improving construction precision.
- Collaborated on engineering mini-projects, contributing technical CAD insights and leadership support.

PROJECTS

AP PDF Generator | *Python, pandas, openpyxl, ReportLab* Aug 2025

- Automated the creation and naming of **1000+ project PDFs** for the City of Sacramento by extracting AP numbers and project names directly from Excel.
- Implemented **PDF generation with ReportLab** and added ZIP packaging options, reducing multi-day manual tasks to **minutes of automated processing**.
- Streamlined staff workflows by eliminating repetitive errors and demonstrating how **data parsing, string manipulation, and automation** deliver measurable efficiency gains.

FinLit – Financial Literacy Quiz Game | *React, FastAPI, SQLAlchemy, OpenAI, Clerk* June 2025

- Built an interactive **financial literacy platform** with React and FastAPI, featuring dynamic question logic, adaptive scoring, and a history dashboard for progress tracking.
- Designed a **PostgreSQL database schema with SQLAlchemy** to manage users, quiz content, scores, and progress, ensuring seamless backend integration.
- Integrated **OpenAI APIs** to generate quiz questions and options, and implemented a **JWT-based authentication flow with Clerk** for secure and scalable user validation.

Xpenza Expense Tracker | *Next.js, React, Tailwind CSS, Drizzle ORM, PostgreSQL* Mar 2025

- Built a **full-stack expense tracker** for **20+ monthly users**, providing real-time analytics dashboards.
- Implemented **Drizzle ORM** for efficient queries and ReactJS for interactive data visualizations.
- Deployed on **serverless PostgreSQL (Neon)** and hosted via Vercel for high availability and scalability.

SKILLS / INTEREST

Languages: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS
Frameworks: Next.js, React, Node.js, FastAPI, Pydantic
Developer Tools: Git, Docker, AWS, VS Code, IntelliJ, CI/CD pipelines
Libraries: Pandas, NumPy