

Yaksh Patel

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TECHNICAL SKILLS

Languages: — JavaScript/NodeJS, TypeScript, Python, C++, Java, GraphQL

Frameworks/Tools: — Spring, Express.js, React.js, Flask, Django, FastAPI, EJS, Bootstrap

DevOps & Cloud: — AWS (S3, EC2), Firebase, Docker, GCP (Cloud Run, App Engine), Azure, Github Actions

Databases & ORMs: — PostgreSQL, MongoDB, Firebase, SQLite, Prisma

Authentication & Realtime: — JWT, Bcrypt, OAuth Cookies, CORS, Socket.IO

AI & Tools: — Hugging Face, OpenAI (GPT), spaCy, REST APIs, Terraform, Kubernetes, Jest, Mocha, Cypress

PROFESSIONAL EXPERIENCE

Founding Software Engineer(Volunteer)

01/2025 – Present

Fuel AI

- Replaced **24-hour batch data sync** with real-time webhook architecture, processing **33K+ sync** events/day
- Built retry-safe APIs with **exponential backoff**, improving reliability during **50+ monthly** Firebase failures
- Integrated client-facing panel bot using ExpressJS and Firebase, streamlining **real-time data transfer**
- Deployed backend infrastructure on **GCP Cloud Run & App Engine** for scalability and high availability
- Refactored real-time automation scripts and **debugged pipelines** to improve reliability and team efficiency

Full Stack Engineer Intern

12/2024 – 04/2025

Nutriverse AI

- Built AI nutrition assistant (React, React Native, Flask, Firebase, Hugging Face) with **GPT models** and **personalized meal suggestions**
- Integrated **OpenAI GPT** for **NLP-based** user interactions and Firebase for structured data storage
- Built **Google Places API** integration to suggest nearby food locations based on preferences
- Developed **modular components** for scalability
- Applied **prompt engineering** and **LLM orchestration** patterns to personalize outputs.

Backend Software Engineer Intern

12/2021 – 06/2022

Interlude

- Built backend for a music education app using **Dart/Flutter, Firebase, and Docker**
- Developed **secure APIs** with **CORS** and **auth** for frontend integration
- Enhanced **API performance** and reliability through optimizations and testing using **Postman**

PROJECTS

TravelX — Immigration Verification System

08/2022 – 12/2022

Tech: React.js, Django, AWS, Firebase, Vendia

- **Led a team of 6** in building a full-stack immigration verification platform with CRUD support for passenger data using SSN for client: Vendia.
- **Developed frontend** in ReactJS and backend in Django, integrating Vendia and **AWS** for scalable and secure data storage.
- **Delivered MVP on time** by coordinating Agile sprints, managing Azure deployments, and aligning milestones with product goals.

Estate

03/2024 – 07/2024

Tech: React.js, Express.js, MongoDB, Tailwind CSS, Socket.IO , JWT, Prisma, Azure (for hosting and scaling)

- Built a full-stack real estate web application as a solo project to deepen skills in **real-time systems, cloud deployments**, and **modern web security**
- Developed **real-time chat** with Socket.IO , implemented **map search**, and secured authentication using **JWT**, cookies, and bcrypt
- Structured frontend and backend with clean separation of concerns using **ReactJS, ExpressJS, MongoDB**, and **Prisma**, while preparing for scalable cloud hosting with **Azure services**

Snake Game - Android App

01/2024 – 05/2024

- **Led team of 5** to develop a classic snake game in **Java** as part of an Object-Oriented Programming course.
- Oversaw **project planning, task delegation, and code integration** using **Android Studio**.
- Applied **OOP principles (encapsulation, inheritance, polymorphism)** to structure game logic and architecture.

- Contributed to core development including **game loop, collision detection, and UI components** using **Android's Canvas** and **SurfaceView**.
- Coordinated **testing, debugging, and team reviews** to ensure a smooth final **product delivery**.

EDUCATION

California State University, Sacramento

01/2020 – 12/2024

Bachelor's Computer Science

Data Structures and Algorithm Analysis | Computer Software Engineering | Object-Oriented Computer Graphics Programming | Database Management Systems | Software Engineering Project Management