

# Yaksh Patel

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## SUMMARY

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Software Engineer with real-time system and AI integration experience at early-stage startups like Fuel AI (33K+ events/day) and Nutriverse (OpenAI GPT-based assistant). Skilled in Python, Node.js, Firebase, Flask, and React — with a strong focus on building fast, secure, production-ready APIs.

## TECHNICAL SKILLS

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

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

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

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### Founding Software Engineer

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

### Volunteer Full Stack Engineer

12/2024 – Present

*Nutriverse AI*

- Built AI nutrition assistant (React, 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

### 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

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### TravelX — Immigration Verification System

08/2022 – 12/2022

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

- **Led 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 data storage
- **Delivered MVP on time** by coordinating **Agile sprints** and aligning milestones with product goals

### Estate

03/2024 – 07/2024

Tech: React.js, Express.js, MongoDB, Tailwind CSS, Socket.IO, JWT, Prisma

- Built a full-stack real estate web application as a solo project to deepen skills in **real-time systems** and modern web security
- Developed **real-time chat** using **Socket.IO**, implemented **map search**, and **protected routes** using **JWT, cookies, and bcrypt**
- Utilized ReactJS, ExpressJS, MongoDB, and **Prisma** to structure frontend and backend with clean separation of concerns

## EDUCATION

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**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**