

# Yaseen Patel

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## EDUCATION

### University of California - Irvine

Expected Graduation: Dec 2025

B.S. in Computer Science | 3.85 GPA

*Relevant Coursework:* Data Structures & Algorithms, Object-Oriented Programming, Principles of System Design, Machine Learning & Data Mining, Database Systems, Information Retrieval, Web Development, API & Web Services, Cloud Computing

## EXPERIENCE

### Co-Founder & Full Stack Developer

Aug 2025 – Present

HealthBridge AI

Remote

- Launched a medical app for **50+ uninsured patients** via community outreach and a pilot funnel to validate demand
- Secured pilot programs with **2 local pharmacies**; negotiated inventory access via partnership with **\$0 paid acquisition**
- Utilized agentic RAG to enforce peer-reviewed, reliable answers (MEDLINE list), **achieving over 95% citation coverage**
- Triggered AI workflow to locate pharmacies by geocoding and **querying 5 APIs**, returning stock options with pickup links

### AI/ML Research Intern

Jun 2025 – Aug 2025

BiasLab @ UCI

Irvine, CA

- Studied and formally derived backpropagation for MLPs/CNNs—gradient descent, loss functions, and regularization
- Conducted extensive experiments and benchmarked deep learning models, **achieving a 10% improvement in accuracy**
- Automated data preprocessing and augmentation using NumPy and Pandas, **accelerating training workflows by 30%**

### Data Engineering Intern

Nov 2024 – Jan 2025

Curtin Maritime

Long Beach, CA

- Built 8+ dynamic query jobs** and scheduling logic, enabling automated execution via trigger conditions and refresh rates
- Matched API response structures to SQL tables, ensuring data consistency and integrity across ingestion processes
- Created and tested API request URLs with dynamic query parameters, **optimizing retrieval efficiency by 25%**
- Investigated sources, datasets, and ETL logic for accuracy, leveraging Azure DevOps for version control and pipelines

### Software Engineering Intern

Jun 2024 – Aug 2024

Headstarter AI

New York, NY

- Contributed to a full-stack travel platform with automated itinerary generation, shipping via agile, Git-based CI/CD
- Shipped accessible React UI and rate-limited REST endpoints for **100+ users**, raising task success and preventing errors
- Built AI-agent coordinating LLM planning and email workflows over REST APIs, **reducing user research time by 10%**
- Integrated GenAI input-to-itinerary mapping, producing **bookable links aligned to a 12-field schema** across services

## PROJECTS

### Workout Buddy | JavaScript, React, Next.js, SQL, Firebase, AWS S3, CloudFront, Gemini API, Docker

Aug 2025

- Built and deployed a full-stack workout app with autoscale AWS App Runner + CloudFront, ensuring scalable delivery
- Integrated a Gemini LLM-powered micro-coach generating personalized targets, **cutting workout planning time by 20%**
- Containerized backend + frontend with Docker, **accelerating iteration cycles by 3x** with Compose, caching, and volumes

### UFA Fantasy App | Python, SQL, HTML, CSS, JavaScript, Flask, AWS, Vercel, Docker

Feb 2025

- Built and launched a Fantasy Football App using React and Flask, tracking stats for a local 80-player league (UFA)
- Enhanced SQL database performance, **reducing query time by 30%** and significantly boosting overall app speed
- Optimized load times with code-splitting and lazy loading, resulting in page **latency/rendering speed in under 2 seconds**

## SKILLS

**Languages:** Python, SQL, HTML, CSS, TypeScript, JavaScript, Java, C, C++, C#, R

**Libraries/Frameworks:** React, React Native, Next.js, Node.js, Flask, PyTorch, TensorFlow, scikit-learn, PostgreSQL, MySQL

**Developer Tools:** Git, GitHub, VS Code, Cursor, Windsurf, AWS, S3, CloudFront, Docker, Vercel, Kubernetes, Linux, Supabase

**Skills:** Full Stack Development, Machine Learning, Artificial Intelligence, Cloud Computing, DevOps, UI/UX Design, Agile Dev

**Certifications/Achievements:** AWS Certified Cloud Practitioner, Dean's Honor List (x4), UCI CS Distinguished Student