Jay Pandya

215-951-3254 | jayvpandya22@gmail.com | linkedin.com/in/jayvpandya | github.com/jprocode

Education

Temple University **Graduation Date: May 2027**
Bachelor of Science in Computer Science, Minor in Data Science *Philadelphia, PA*

Experience

AI Researcher & Software Developer Intern **May 2025 – Present**
Temple University *Philadelphia, PA*

- Developing an **AI-driven** educational platform to improve children's learning outcomes
- Engineered a learning system combining speech recognition and semantic scoring to deliver synchronized video-based comprehension questions, improving comprehension and engagement
- Built a **React UI** with real-time feedback system adapting question difficulty based on student performance patterns, reducing question delivery latency by **40%** via async handling
- Collaborated with research team on **NLP pipeline** design and conducted user testing sessions with **20**+ elementary students to validate learning efficacy and iterate on UI/UX improvements

Web Developer Intern **January 2026 – Present**
Aero Dental *West Chester, PA*

- Redesigned company website front-end using **HTML**, **CSS**, and **JavaScript**, reducing page load times by **35%** and improving mobile responsiveness across **5**+ core pages
- Developing full-stack patient portal web application using **React**, **Node.js**, and **SQL** to streamline appointment scheduling, patient records access, and dental staff communication
- Collaborate with stakeholders to gather requirements and iterate on UI/UX designs, conducting **3**+ design review sessions to optimize patient workflow efficiency

Projects

FitStack | *Java, Spring Boot, React, TypeScript, PostgreSQL, Redis, WebSockets* **June 2025 - Present**

- Built a robust **full-stack** fitness platform using **Spring Boot** and **React** featuring live workout tracking, dynamic **AI-assisted** nutrition planning, and comprehensive body metric analysis
- Integrated **OpenAI GPT-4** to automate personalized plans, cutting user onboarding time by **85%**
- Optimized API performance to consistently achieve **sub-100ms** latency for **20**+ concurrent users, significantly reducing database load by **40%** via strategic **Redis** caching and rate limiting
- Engineered interactive, real-time dashboards with **Spring WebSockets** and **TypeScript** to enable live session synchronization, driving a **35%** increase in user retention

DocAssist AI | *Python, FastAPI, Next.js, JavaScript* **June 2025 - Present**

- Built DocAssist AI using **Next.js 15** and **FastAPI**, creating a production-ready platform for real-time, AI driven context-aware PDF analysis and summarization
- Engineered a high-precision **RAG pipeline** using **FAISS** and OpenAI, implementing 500-token chunking to maximize retrieval accuracy and eliminate hallucinations
- Optimized UX with Server-Sent Events (SSE) for streaming responses while securing the API via IP-based rate limiting and bcrypt authentication
- Unified static document data with real-time web results via Tavily API, maintaining **100%** type safety across the stack with **TypeScript** and **Pydantic**

Technical skills

Certifications: Comptia Cloud+ (Expected 2026), AWS (Expected 2026)
Languages: Java, Python, C/C++, JavaScript/TypeScript, HTML/CSS, SQL
Frameworks and Libraries: Spring Boot, Spring Cloud, React, Node.js, Flask, FastAPI, Next.js, pandas
Databases & Caching: PostgreSQL, Redis, FAISS, Supabase
Developer Tools: Git, Docker, Maven, Railway, Vercel, AWS, Azure, Render