Jay Pandya

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https://www.jaypandya.dev

EDUCATION

Temple University | GPA: 3.44   **Graduation Date: May 2027**
Bachelor of Science in Computer Science, Minor in Data Science   *Philadelphia, PA*

EXPERIENCE

Software Developer Intern   **January 2026 – Present**
Aero Dental   *West Chester, PA*
- Redesigned website **front-end**, reducing page load times by **35%** across **5+** core pages
- Improved mobile responsiveness using **HTML**, **CSS**, and **JavaScript** for seamless user experience
- Built **full-stack** patient portal with **React**, **Node.js**, and **SQL** for appointment scheduling
- Streamlined patient records access and dental staff communication through **real-time** features
- Led **3+** stakeholder design sessions to iterate on **UI/UX** and optimize workflow efficiency

Software Developer Intern   **May 2025 – Present**
Temple University HCI Lab   *Philadelphia, PA*
- Developing **AI-driven** educational platform to improve children's learning outcomes
- Engineered speech recognition and **semantic scoring** system for video-based comprehension
- Built **React** UI with **real-time** adaptive difficulty based on student performance patterns
- Reduced question delivery latency by **40%** via **async handling** and system optimization
- Designed **NLP** pipeline collaborating with research team for accurate semantic analysis
- Conducted user testing with **20+** elementary students to validate efficacy and iterate UX

OwlHacks Hackathon   **September 2025**
Team Lead   *Philadelphia, PA*
- Led team of four developers to second place among **40+** competing teams at OwlHacks
- Built **OpenCV** facial recognition system for stress-free campus navigation for neurodivergent users
- Coordinated **ML** model integration and mapping features during 30-hour development sprint

PROJECTS

FitStack | *Java, Spring Boot, React, TypeScript, PostgreSQL, WebSockets*
- Built robust **full-stack** fitness platform with **Spring Boot** and **React** for live workout tracking
- Integrated dynamic **AI-assisted** nutrition planning and comprehensive body metric analysis
- Automated personalized plans with OpenAI GPT-4o mini, cutting user onboarding time by **85%**
- Optimized API: **sub-100ms** latency for **20+** concurrent users; cut DB load **40%** via **Redis**
- Implemented **CI/CD** pipeline and **rate limiting** for strategic caching optimization
- Engineered interactive dashboards with **Spring WebSockets**, boosting retention by **35%**

DocAssist AI | *Python, FastAPI, Next.js, JavaScript*
- Built DocAssist AI with **Next.js 15** and **FastAPI** for real-time **AI-driven** PDF analysis
- Created production-ready platform for **context-aware** PDF summarization and processing
- Engineered high-precision **RAG** pipeline using **FAISS** and **OpenAI** with **500**-token chunking
- Maximized retrieval accuracy and eliminated hallucinations through strategic chunking
- Optimized **UX** with SSE streaming; secured API via IP-based **rate limiting** and bcrypt
- Unified document data with web results via **Tavily**, maintaining **100%** type safety with **Pydantic**

TECHNICAL SKILLS

Certifications: CompTIA Cloud+, AWS Solutions Architect Associate (Expected Summer 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, OpenCV
Developer Tools: Git, Docker, Maven, Railway, Vercel, AWS, Azure, Render