Aahil Afraz

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EDUCATION

Drexel University | Philadelphia PA | GPA: 3.00 **Expected Graduation: June 2028**

B.S. in Software Engineering

Relevant Courses: Systems Architecture, Software Engineering & Development, Web Systems & Services, Software Project Management

TECHNICAL SKILLS

Languages: Java, JavaScript, **Python**, SQL**,** C

Frameworks & Tools: Flask, **React.js**, **Electron**, Git/Gitlab, Express.js, Node.js, **REST APIs**, Redis

Development: Agile/Scrum, SDLC, CLI, Bash, JSON, **CI/CD**, **Azure**, Helmet, CORS, **PostgreSQL**

Certifications: AI/ML Azure (**AI-900**), Azure Fundamentals (**AZ-900**), Security, Compliance and Identity Fundamentals (**SC-900**)

PERSONAL EXPERIENCE

LearnFlow-AI | Philadelphia, PA **June 2025 - Present**

Co-Founder & Founding Engineer

- Founded a production-ready AI learning platform serving **150+ beta** users with **React**, **Electron**, and **Express.js** backend, implementing **RESTful APIs** with security middleware (**Helmet, CORS**) & Rate Limiting (**100 req/15min)**
- Built **6-pipeline context assembly retrieval system** aggregating performance analytics (mock exam & quiz scores), study materials (transcripts), syllabus intelligence (weekly topic tracking), assignment context, and session history to deliver **personalized** AI content with adaptive content recommendations across **10+** concurrent conversation threads per project
- Developed **system-wide** text capture service using **Google Cloud Vision OCR** working across any desktop application, implementing **Electron IPC** architecture with **sub-3s** extraction times and **OpenAI GPT-4** powered instant explanations
- Built AI-powered notetaking system with Electron **desktopCapturer** for **system-wide** capture, integrating **OpenAI Whisper API** for real-time transcription and GPT-4 for automated note organization with summary & importance scoring
- Designed unified **Supabase** PostgreSQL **database schema** linking highlights, transcripts, assignments and AI-generated notes across features, enabling **cross-feature context** for **AI chatbot** with **contextual conversation-based memory**

EnAble Games | Philadelphia, PA **April 2025 – September 2025**

Software Engineering Co-op

- Developed **Redis caching layer** for game data persistence, reducing **redundant API calls** and improving performance
- Led **Angular-to-React** migration of production game portal, refactoring **30+** components while maintaining 100% feature parity and reducing bundle size by **25%,** improving initial load time by **35%** with React Hooks and component architecture

AirCast Nasa Space Apps Challenge 2025(Team Relentless) | Remote **October 2025**

Full Stack Development (Participant)

- Developed AI-powered air quality forecasting platform integrating **NASA TEMPO satellite data, OpenAQ sensors**, and **OpenWeather APIs**, implementing atmospheric-to-ground comparison system with **6-hour** Air Quality Index (AQI) predictions incorporating weather patterns, traffic emissions, and conversational AI chatbot for personalized content
- Deployed on Microsoft **Azure** with automated **CI/CD** pipelines using **GitHub Actions**; implemented interactive mapping interface with **Google Maps API** and **Chart.js** visualizations with responsive geospatial clustering for air quality station data across multiple metropolitan regions with pollutant-specific filtering for **NO2, O3**, and **PM2.5 levels**

PROJECTS

Y-Combinator (Job Simulation) | Remote **July 2025**

- Completed Y-Combinator's startup engineering simulation building **full-stack** web applications for a productivity tool in the shipping industry, implementing **React** frontend with **Node.js** backend architecture

PhillyFeelSafe | Philadelphia, PA **February 2024 – June 2024**

- Collaborated in a **4-person Scrum team** over a **6-month** development cycle to deliver an interactive safety map application
- Applied **Agile** principles: **sprint planning, code reviews**, and user acceptance testing to meet project requirements