

Pujan Desai

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Availability: May 2025 – December 2025

Education

Northeastern University, Khoury College of Computer Sciences, Boston, MA Sept 2023 – May 2027

Honors Candidate for B.S. in Computer Science and Business Administration, Concentration in Finance GPA: 3.703/4.00

Relevant Coursework: Object-Oriented Design, Algorithms & Data, Information Presentation & Visualization, Foundations of Data Science, Fundamentals of Computer Science 1 & 2, Discrete Structures, Financial Management, Financial Accounting

Technical Skills

Languages | Python, Java, C++, HTML, CSS, JavaScript, TypeScript, SQL, DrRacket

Frameworks & Libraries | Django, React, PostgreSQL, Flask, Next.js, Node.js, Tailwind, Pandas, NumPy, Scikit-learn, Swing

Services & Tools | Git, Docker, AWS, Postman, Unix/Linux, VS Code, Eclipse, Jupyter Notebook, IntelliJ, Adobe Creative Suite

Work Experience

TAMID Group at Northeastern, Boston, MA Sept 2024 – Present

EduFlexAI, *Software Developer & UI/UX Designer*, Jan 2025 – Present

- Contributing to the development of an AI-driven learning platform using Next.js, React, Django, PostgreSQL, and OpenAI
- Developing a “Learn” page enabling GPT-driven, file-based personalized help, context-aware explanations, and code reviews
- Building a dynamic resource aggregator using Pinecone vector embeddings to surface curated videos, articles, and materials
- Engineering GitHub webhooks powering real-time project sync, automated feedback loops, and efficient version control
- Crafting scalable UI/UX designs focused on intuitive user flows, modern design systems, and cross-device accessibility
- Architecting scalable Dockerized infrastructure and CI/CD pipelines to accelerate development, deployment, and onboarding

CarePath, *Project Manager*, Oct 2024 – Nov 2024

- Led a team of 4 developers using Agile, ensuring timely sprint deliverables and effective communication with project liaison
- Managed and coded a health-tracker app with health metrics, medication reminders, and appointment scheduling using React
- Oversaw team workflows, delivering an intuitive dashboard with real-time updates for enhanced functionality and experience

Oasis at Northeastern, *Software Developer (Machine Learning)*, Boston, MA Jan 2024 – Apr 2024

- Built a machine learning model predicting NBA game winners with ~65% accuracy using NBA API, Scikit-learn, and Pandas
- Improved model performance and correctness by engineering features like rolling averages and home/away statistics
- Presented and demoed the project to ~100 members/sponsors, explaining the model development process and its functionality

Old Bridge High School – Online Bank, *Scrum Master*, Old Bridge, NJ Nov 2022 – Mar 2023

- Spearheaded a team of ~30 developers, optimizing task allocation and forming specialized teams for efficient execution
- Delivered an online banking platform with account creation, transactions, loan approvals, and foreign exchange features
- Streamlined GitHub integration, ensuring efficient code management and seamless collaboration across development teams

Projects

Chess, *Python* Jul 2024 – Sept 2024

- Created a PvP chess game with Pygame, featuring multiple board themes, last-move highlighting, and valid moves display
- Engineered a modular, scalable architecture applying OOP practices, accelerating feature development and reducing tech debt
- Implemented core mechanics like move validation, checkmate, stalemate, pawn promotion, en passant, and castling

Stock Portfolio Application, *Java* May 2024 – Jun 2024

- Developed a mock stock portfolio application utilizing the Alpha Vantage API to fetch real-time and past stock data
- Implemented stock performance charts, portfolio composition and rebalancing, moving averages, and buying/selling shares
- Designed an intuitive GUI using Java Swing, ensuring a user-friendly experience for managing and viewing portfolios
- Built project using MVC architecture alongside the Command Design & Adapter patterns to ensure scalability and flexibility

Additional Information

Activities & Skills: Dean’s List, NU UTSAV, TAMID Group at Northeastern, BAPS Content Creator & Volunteer | Fluent in Gujarati

Interests: Tennis, Lifting, Basketball, Graphic Design, Hiking, Drawing, Baseball, Music, Video-Editing, Fashion, LEGOs, Cooking