Amy Eng

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EDUCATION

Northeastern University | Boston, MA   **Aug 2023 - May 2027**
Khoury College of Computer Sciences
B.S. in Computer Science & Design (Concentration: Interaction Design) | **GPA: 3.84/4.0** (Dean's List)
Courses: Algorithms & Data Structures, Object-Oriented Design, Introduction to Database Design, Web Development, Fundamentals of CS I & II, Discrete Structures, Prototyping with Code

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML, CSS, SQL, LaTeX, DrRacket
Frameworks & Libraries: React.js, Next.js, Node.js, Flask, Streamlit, Three.js, p5.js, Axios, AJAX, Async Redux
Databases & APIs: MongoDB/Mongoose, Relational Database Design, REST API Development, JSON, Controllers/Routes, Services/Clients, 3rd Party APIs, User Authentication
Cloud & Tools: Git, Docker, AWS (S3, Route 53, Amplify), Lucidchart, Overleaf
Software & IDEs: Visual Studio Code, Eclipse IDE, Cursor IDE, IntelliJ IDEA, DataGrip, Figma, Microsoft Office Suite
Core Knowledge: Object-Oriented Programming, Data Structures & Algorithms, MVC Design, Routing/Navigation, Dynamic Data, DOM Manipulation, Responsive Design, Testing (JUnit4), Design Patterns (Factory, Strategy, Observer, Decorator, Adapter), AI Web-App Integration
Foreign Languages: Proficient in Mandarin Chinese (Seal of Biliteracy, 2023)

PROJECTS

Coopalytics - Full-Stack Co-op Search Platform | *Database Design Project*   **Aug 2025**
Python, Flask REST API, Streamlit, SQL, DataGrip, Docker, Lucidchart   Links: Github Repo | Video Demo
- Designed and normalized a **relational SQL database** to handle multi-role queries for four user personas (students, academic advisors, employers, and platform admins).
- Built a **Flask REST API** and linked it to a **Streamlit frontend** for interactive search and data visualization.
- Deployed a **three-tier application using Docker containers** to simulate production-ready environments.

Three Trios - Object-oriented Game Development | *Object-oriented Design Project*   **Dec 2024**
Java, MVC, Design Patterns, JUnit4 Testing, Java Swing   Links: Github Repo | Adapter Pattern Repo | Video Demo
- Built a **two-player card game with Human vs. AI modes**, implementing AI strategies with design patterns (Factory, Strategy, Observer, Decorator).
- Applied **Adapter pattern** to integrate with another team's view layer without altering our existing model.
- Demonstrated mastery of **OOP principles** (inheritance, encapsulation, composition, double dispatch).

EXPERIENCE

Notetaker for Web Development | *Northeastern University*   **Sept 2025 - Present**
- Documented **clear, well-organized lecture notes** that support students with disability accommodations by ensuring all content is **accessible, readable, and easy to understand**, helping them keep pace with course material.

Full-Stack Developer | *Scout (A Northeastern Student Design Agency)*   **Jan 2025 - May 2025**
- Built a **React.js/Three.js website** for client Djoda, including a 3D interactive spine model, pre-order system, blog with database, and customer testimonials based off of **Figma wireframes**
- Collaborated with clients in weekly meetings to refine requirements, review features, and discuss development
- Applied **Git version control**, iterative development, and client-focused feedback cycles in a team setting.

Graphic Design Co-op/Intern | The TJX Companies, Inc. (Marshalls)   **Jan 2025 - June 2025**
- Produced digital and print design assets featured on **Marshalls.com, 6M+ subscriber emails, 1,200+ stores, and Instagram (1.5M+ followers)**.
- Collaborated with Creative Directors and Copywriters to present work to executives and adapt feedback rapidly.