

Eve Lin

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EDUCATION

University at Buffalo, The State University of New York

Buffalo, NY

Bachelor of Science in Computer Science, GPA: 3.7/4.0, Dean's List

August 2021 – May 2025

Relevant Coursework: Software Engineering with Agile, Systems Programming, Data Structures & Algorithms, Object-Oriented Programming, Discrete Math, Artificial Intelligence, Computer Systems Administration

SKILLS

Languages & Databases: Python, JavaScript, Java, C, PHP, SQL, PostgreSQL, MySQL, MongoDB

Frameworks & Tools: React, Flask, Django REST, Docker, Git, Postman, JWT, VSCode, IntelliJ

Development Practices: RESTful APIs, Responsive Design, Agile (Scrum/Kanban), CI/CD, Unit Testing, TDD

PROJECTS

AI-Powered Notetaking Application: Full Stack Productivity Web Application (Prodify)

- Contributed to a 5-member Agile team to develop a full-stack platform using the React framework, Django REST, and PostgreSQL, supporting CRUD functionality for notes, tasks, and calendar events across 100+ users.
- Integrated Groq's AI API to generate automatic note summaries, reducing manual review time by over 40% and improving user focus.
- Implemented token-based authentication with persistent login, secure password handling, and real-time strength validation for a streamlined UX.
- Deployed to production using Render, ensuring full responsiveness across devices and seamless integration of frontend, backend, and database.

Blogging Application: Full Stack Social Platform

- Collaborated with a 4-member team to build a containerized blogging platform using Flask, MongoDB, and Docker, serving 75+ media posts and timed quizzes with a dynamic leaderboard.
- Engineered secure features including like/unlike tracking, bcrypt authenticated login, and IP-based rate limiting to protect against spam and unauthorized access.
- Streamlined development and testing workflows by configuring Docker Compose, allowing for consistent environment setup and scalable local deployment in under 5 minutes.

Chatbot Application: Backend Socket Platform

- Engineered a real-time messaging system from the ground up using raw sockets, HTTP, and WebSocket protocols, supporting 20+ concurrent users without relying on web frameworks.
- Implemented secure user authentication with bcrypt, CSRF token protection, and Spotify OAuth, with 500+ chat messages and user data persisted in MongoDB.
- Applied low-level networking and protocol handling techniques to manage socket connections, parse custom HTTP requests, buffer to support large media uploads (> 2MB) and enforce session-based privacy controls.

WORK EXPERIENCE

AI & Workflow Automation Developer

Remote

Extern with Outamation

May 2025 – July 2025

- Built a smart document retrieval pipeline that processed unstructured PDFs using Python, LlamaIndex, and Mistral, improving search relevance for financial documents by ~35%.
- Applied hybrid retrieval, chunk overlap, and LLM reranking, reducing irrelevant results by 50% and improving response grounding across 3 document types.
- Presented weekly technical updates and a final report to stakeholders, highlighting performance trade-offs

Software Engineering Teaching Assistant

University at Buffalo, New York

Department of Computer Science and Engineering

August 2022 – May 2025

- Delivered weekly coding lessons to over 100 students, covering key CS concepts such as unit testing, object-oriented programming, and data structures & algorithms.
- Led weekly office hours providing individualized code reviews and debugging support for Java and Python assignments, assisting 30+ students per week.
- Supported exam operations as a proctor by managing logistics and communicating testing instructions clearly

Web Development and Graphic Design Intern

Brooklyn, New York

Infinity Educational Programs, Inc.

July 2024 - August 2024

- Designed and produced digital marketing assets using Canva, boosting engagement across Instagram and LinkedIn through visual consistency and brand alignment.
- Developed and styled responsive web components using HTML, CSS, and basic JavaScript, improving site accessibility in compliance with WCAG guidelines.