Edward Gaibor

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WORK EXPERIENCE

Part-Time Full-Stack Engineer 09 2024 — 05 2025
John Hancock - Manulife *Boston, MA*

- Architected a Next.js document comparison platform with AI analysis capabilities, reducing loan processing errors by 80% and review time by 50% through automated difference detection, SharePoint integration, and data export functionality.
- Automated 70+ jobs for task scheduling and execution running in R 4.4 for business analytics using Microsoft CAWA.
- Secured first place at Manulife's internal hackathon by creating a Next.js application using the AI SDK for generative UI financial advisor chatbot.

Software Engineer Intern 05 2024 — 08 2024
John Hancock - Manulife *Boston, MA*

- Developed GenAI app for credit research assistance with SSO using React, Flask as middleware and FastAPI backend. Improving response time by 92% and production deployment for market exploration.

Software Engineer Intern 05 2025 — Ongoing
John Hancock - Manulife *Boston, MA*

- Developed a Next.js application for AI chat interface with document knowledge using Azure OpenAI and MongoDB, resulting in future production release.

Research Fellow Software Engineer 07 2023 — 05 2024
UMass Boston — Repository *Boston, MA*

- Advanced the open-source Boostlet.js library by developing 2 plugins for edge-based medical image processing and automated testing pipeline using Puppeteer, reducing developer testing time by 50%. Enhanced integration with frameworks like Xtk.js, Papaya.js, and Niivue.js, and enabled client-side execution of machine learning models.
- Presented research advancements to around 20 researchers and lab directors at the Niivue.js hackathon, annual BrainHack, and first-authored research paper.

Research Software Engineer and Technical Intern 06 2023 — 12 2023
MIT Sensein Group — Repository *Cambridge, MA*

- Engineered scientific software for neuroimaging and biomedical signal analysis, incorporating neural network models and optimizing them for high-performance computing environments using Tensorflow, Singularity, and Slurm.

EDUCATION

BS, Computer Science, University of Massachusetts Boston 09 2022 — 05 2026

- Dean scholar, The Paul English CS Scholar, Sloan research Fellow, The Marie and Thomas Donohue Scholar, Oracle CSM Research Fellow and McNair Trio Fellow. Vice-President @ CS Club: Organized first-ever Hackathon, Google DevFest(120 attendees) and guest speaker presentations.

PROJECTS — MORE IN WEBSITE

Elara – AI-Powered Herbal Remedy & Recipe Chatbot (Github—Website) 04 2024

- Co-developed an AI-driven herbal remedy and recipe chatbot using Next.js (TypeScript) and Vercel's generative AI SDK with Google PaLM, deployed on Google Cloud Run, and secured 3rd place (out of 7,000 participants) in the Google Cloud × MongoDB Hackathon.

SKILLS

Languages	Native Spanish and Fluent English
Programming Languages	Python, Java, C, HTML, CSS, Javascript, Assembly Language, R
Relevant Coursework	Advanced Data Structures and Algorithms, Data Science, Computer Architecture, Calculus II
Technologies	Sci-kit-learn, Flask, GitHub, Next.js, Tkinter, TailwindCSS, Open CV, FastAPI, Tensorflow, Docker, Singularity, Azure Cloud, Three.js, Mongo DB, Drizzle, ShadCN

PUBLICATIONS

Kim, S., Gaibor, E., & Haehn, D. (2024). Web-based Melanoma Detection. ArXiv.org. IEEE ISBI 2025

Gaibor, E., Varade, S., Deshmukh, R., Meyer, T., Geshvadi, M., Kim, S., Narayanappa, Vidhya Sree, & Haehn, D. (2024). Boostlet.js: Image processing plugins for the web via JavaScript injection. ArXiv.org. IEEE ISBI 2025