Edward Gaibor

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WORK EXPERIENCE

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

- Automated 70+ jobs for task scheduling and execution running in R 4.4 for business analytics using Microsoft CAWA.

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

- Developed GenAI app for credit research assistance using a middleware built with Flask that provides reverse proxy, authentication, authorization, and security features, connecting a React frontend with a FastAPI backend, improving response time by 92%. This has resulted in production deployment and employees globally using it for market exploration.
- Built a CI/CD pipeline in GitHub Actions with rollback functionality to automate the build and deployment processes of .NET & Python executable applications from the organization's repositories to the specified remote servers. Resulting in over 100 teams using this pipeline to improve their day-to-day workflow.

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 "NoBrainer" 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, Research Fellow funding, The Marie and Thomas Donohue Scholar, and Oracle CSM Research Fellow.
- Vice-President @ CS Club: Organized first-ever Hackathon, Google DevFest(120 attendees) and guest speaker presentations.

PROJECTS — MORE IN WEBSITE

QR Pigeon - Full-Stack Web App Development (Github—Website) 04 2024

- Developed an open-source application for fast, secure, and friction-less file transfer across devices using Flask, Python, and Azure. Achieved over 400 uses so far.

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, Jupyter Notebook, Tkinter, VirtualBox, Open CV, DiscordDev, Tensorflow, Docker, Singularity, Slurm, Three.js, Next.js, Drizzle, ShadCN, VegaLite.js.

PUBLICATIONS

Kim, S., Gaibor, E., & Haehn, D. (2024). Web-based Melanoma Detection. ArXiv.org. https://arxiv.org/abs/2403.14898

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. https://arxiv.org/abs/2405.07868