Edward Gaibor

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WORK EXPERIENCE

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

- Expected to contribute to community-driven projects regarding database provisioning, configuration, monitoring, maintenance, release management, migration, or decommissioning.

Sloan Research Fellowship: Neuroimaging Software Engineer — 07 2023 — 05 2024
UMass Boston — Repository — *Boston, MA*

- Advanced the open-source Boostlet.js library by developing plugins for edge-based medical image processing and automating testing with GitHub Actions. Enhanced integration with frameworks like Xtk.js, Papaya.js, and Niivue.js, and enabled client-side execution of machine learning models.
- Presented research at South Carolina University's Niivue.js hackathon and annual BrainHack, demonstrating project advancements. Additionally, submitted a related paper to the IEEE Vis 2024 conference, currently under review.

Grader for Graphics Programming, Data Visualization, and Biomedical Image Processing — 09 2023 — 05 2024
UMass Boston — Website — *Boston, MA*

- Weekly Assignments: Graded and reviewed work from over 30 senior and graduate students.
- Specialized Focus: Addressed complex technical issues in Graphics Programming using XTK.js, Three.js, and WebGL; emphasized effective data storytelling in Data Visualization with D3.js and VegaLite.js; and assessed advanced medical imaging techniques and deep learning applications in Biomedical Image Processing.

Software Engineer Research 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 Docker, Singularity, and Slurm.
- Designed and implemented an automated deployment pipeline for neuroimaging models using GitHub Actions, Amazon EC2, and LinkML schemas, standardizing model cards. This automation eliminated manual checks, ensuring ready-to-use models, and set a community standard demonstrated at the OHBM Hackathon.

EDUCATION

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

- Dean's merit scholarship, The Paul English Computer Science Scholarship, Undergraduate Research Fellow funding, The Marie and Thomas Donohue Scholarship, and Oracle CSM Undergraduate Research Fellowship.
- 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

- Collaborated with a team to develop an open-source, full-stack web application using Flask, Python, Azure Cloud, and Nginx, designed for fast, secure, and frictionless file sharing across devices. Resulting in over 370 users sending files.

SKILLS

Languages	Native Spanish and Fluent English
Programming Languages	Python, Java, C, HTML, CSS, Javascript, Assembly Language
Relevant Coursework	Advanced Data Structures and Algorithms, Data Science, Computer Architecture, Calculus II

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