Daria Dobrolinski

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EDUCATION

Bachelor of Science, Computer Science, University of Massachusetts Boston 01/2024 — 05/2027

- Relevant Coursework: Calculus 1 & 2, Fundamentals of Physics 1 & 2, Introduction to Electrical and Computer Engineering, Introduction to Computer Science, Discrete Mathematics

Bachelor of Science, Pharmaceutical Sciences, University of Rhode Island 09/2023 — 12/2023

- Relevant Coursework: Biology, Chemistry, Calculus 1, Communications

Certificates: Python 3 - HTML - Intro to GenAI - MongoDB

WORK EXPERIENCE

Research Assistant 02/2025
University of Massachusetts Boston *Boston, MA*

- Refactor and optimize existing MATLAB codebase to enhance readability and efficiency, streamlining the 3D brain reconstruction pipeline that addresses the partial volume problem and improves simulation accuracy in tCS applications.
- Utilize MATLAB and mesh processing tools to generate precise surface and volume models, improving geometric detail in MRI-based reconstructions.
- Implement advanced algorithms for systematically adjusting sulci and gyri widths, reducing data loss and increasing accuracy in biomedical simulations.

PROJECTS

Owner, ASL Recognition with TTS (Github) 04/2025

- Built a real-time ASL recognition system using Python, MediaPipe, a Random Forest classifier, and OpenCV featuring custom dataset collection and text-to-speech integration for accessible ASL-to-audio translation.

Owner, Photo Sharing Web App (Website – Github) 03/2025

- Collaborated to develop and design a photo sharing web app for favorite selection using HTML and CSS for frontend and Python for backend.
- Consequently, users can download the selected favorites within the web socket session.

Owner, Anorexia Awareness Website (Website – Github) 01/2025 — 03/2025

- Designed and developed a responsive and visually engaging informative website using HTML, CSS, and JavaScript.
- Implemented an interactive navigation bar, dynamic text effects, charts, and flip-card flashcards to enhance user experience and readability.

Lead, Automatic Irrigation System (Slideshow) 03/2024 — 05/2024

- Developed an Arduino-based irrigation system using soil moisture sensors and water pumps, reducing manual watering efforts by over 50%.
- Engineered and 3D-printed a protective enclosure in Fusion 360, protecting electronics from environmental damage and prolonging system lifespan.

SKILLS

Languages	English (Native), Polish (Native), Spanish (Advanced)
Programming Languages	Python, CSS, HTML, Javascript, MATLAB
Technologies	Microsoft Office, Arduino IDE, MongoDB

AWARDS

- **Seal of Bi-literacy** — Spanish & Polish 05/2023
- **Dean's List** — Fall 2024, Spring 2025