

Daria Dobrolinski

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EDUCATION

Bachelor of Science, Computer Science , University of Massachusetts Boston	01/2024 — 05/2027
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Relevant Coursework: Biology, Chemistry, Calculus 1, Communications	
Certificates: Python 3 - Intro to GenAI - Java - MongoDB - HTML	

WORK EXPERIENCE

Research Assistant University of Massachusetts Boston	02/2025 <i>Boston, MA</i>
<ul style="list-style-type: none">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 , Elara AI (Website – Github)	06/2025
<ul style="list-style-type: none">Collaborated to develop a natural remedy chatbot that takes a user’s medical concern, uses FastAPI with Vertex AI (Gemini) for symptom extraction and classification, and queries MongoDB Atlas to recommend top-rated medicinal plants.Vertex AI (Gemini) also generates a recipe with the recommended plant and the recipe can be downloaded as a PDF.	
Owner , ASL Recognition with TTS (Github)	04/2025
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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.	

MORE ON WEBSITE

SKILLS

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

AWARDS

<ul style="list-style-type: none">Seal of Bi-literacy — Spanish & Polish	05/2023
<ul style="list-style-type: none">Dean’s List — Fall 2024, Spring 2025	