

# Iba Baig

Programmer, researcher, and scientist with a focus on improving human experiences.

ibabaig712@gmail.com  
(786) 342-5162  
ibabaig.github.io

## EXPERIENCE

### Product Manager – ZOR LLC SEPT 2025 – PRESENT

- Lead team collaboration of 10+ students in an agile startup environment across engineering, design, and business teams; oversee product lifecycle development of a digital health management app; conduct prototype testing and feedback.
- Drive outreach and strategic discussion with one VC firm; prepare pitch deck, and presentations. Liaison with a clinician mentor.
- Consult UI/UX design for clinical focus; design and update database; lead user research and informatics; assist in deep learning algorithm back-end.
- Engage in programming sprints; 15-20hrs/week of team and independent work.

### Research Engineer Co-op – Cognition and Intelligence Lab JULY 2025 – PRESENT

Advisors: Dr. Mingbo Cai (University of Miami), Dr. Sho Tsuji (Ecole Normale Supérieure)

- Independently design and implement end-to-end automated behavioral annotation tool using video-language model to classify time-series parent-child interaction states from video data with ~91% accuracy overall.
- Conduct closed-set prompt engineering. Practice standard software engineering principles to develop as a tool for international psychology research partners.
- Attend weekly journal literature review with graduate students.
- Preparing first-author manuscript and open-source release of framework.

### Student Learning Intern Co-op – Cleveland Clinic MAY 2024 – AUG 2024

- Rotation in neurology unit; Analyzed patient cases alongside physicians and researchers in EEG/MRI/PET scans, surgery, and epilepsy behavioral reviews.
- Discussed pre/post-operative clinical data to understand decision-making, diagnostics, and treatment outcomes. Participated in physician meetings.
- Completed 400+ hours of patient observations in clinical and hospital settings.

### Research Assistant – Center for Translational Neuroimaging MAY 2023-APR 2024

Advisors: Dr. Craig Ferris and Dr. Praveen Kulkarni (Northeastern University)

- Conducted neuroimaging segmentation of 40+ subjects and aid fMRI scans. Assist in animal acclimation, treatment, gavaging, and open-field behavioral data collection for pre-clinical study of psilocybin to treat rmTBI.

## PRESENTATION

### Poster, First-author – NeuroBoston Symposium, SfN Boston Chapter DEC 2025

*AI-based analysis of action and attention in parent-child interaction*

## RELEVANT COURSES

Machine Learning 1 & 2, Physics 1 & 2, Artificial Intelligence, Bioinformatics (Graduate level), Discrete Structures, Statistics in Psychology, Information Visualization

## EDUCATION

### Northeastern University

Sept 2022 – May 2026

*Bachelor of Science*

Data Science & Behavioral Neuroscience, Pre-med

GPA: 3.6 / 4.0

## SKILLS

### Programming

Python, SQL, NoSQL, Java, R, JavaScript, HTML/CSS, Swift, React

### Libraries & Frameworks

Sci-kit learn, Pandas, NumPy, PyTorch

### Tools & Platforms

Git, Figma, Jira, Jupyter, Linux, SPSS, ITKSnap, Excel, Adobe CS

## HONORS & AWARDS

■ Dean's List

■ BNS Committee  
Conference Travel Award  
Dec'25

■ Alpha Epsilon Delta  
Honor Society

## LANGUAGES

Spanish (Conversational)  
Urdu (Fluent)