

BRADY LI

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EDUCATION

Northeastern University

B.Sc. in Computer Science, Minor in Cognitive Psychology | **GPA: 3.86/4.0**

Relevant Coursework: SWE & Data in International Gov, Databases, Systems, UX, Object-Oriented Programming

Oxford University | Exeter College

Study Abroad | Quantum Computing and Philosophy

Expected: Apr 2027

Boston, MA

Jun 2025 – Aug 2025

Oxford, England

TECHNICAL SKILLS

Programming Languages: Java, Python, C#, SQL, Shell Scripting, JavaScript

Tools/Frameworks: Flask, Git, Docker, Jenkins (CI/CD), React, AWS EC2, Elasticsearch, MongoDB, MySQL, Maven, Unity3D, JUnit Testing, Streamlit, Copilot & LLMs

EXPERIENCE

Software Engineer Co-op

Babel Street | Rosette Names Team

Jan 2025 – Jun 2025

Somerville, MA

- Developed customer-driven upgrades to multilingual **NLP** SDK, Elasticsearch plugin, and API using **Java**, improving Korean matching by **8x** and adding new customer parameter logic, pushing **Agile** sprints.
- Engineered a dynamic **Jenkins/Maven CI/CD** pipeline with obfuscation for new limited-edition SDK workflow.
- Migrated legacy **MongoDB** server to **AWS EC2** with a custom JSON **shell scripting** workflow, bypassing **10+** upgrades, cutting downtime and storage size by **87%**.
- Customized linkage algorithm in **Python** for new product MVP with internal pairwise **API**, handling noisy data.

Spatial Computing Engineer

Reality Design Studio | Research Team

Mar 2023 – Present

Boston, MA

- Developed and managed a **50+** participant **VR** Cybersickness study with 3D replay using **C#** to visualize **1,000,000+** lines of eye gaze datasets for user behavior analysis across **100+** sessions.
- Engineered spatial **AR** Art Gallery experience in **Unity3D** for **HoloLens2**, enabling image tracking and immersive audio playback, presented at the **67th HFES conference** and **New Music Blacksburg Concert**.

Algorithms Teaching Assistant

Khoury College of Computer Science

Sep 2025 – Present

Boston, MA

- Assist students in Algorithms & Data Structures, covering graphs, dynamic programming, and time complexity.
- Lead weekly office hours for **200+** students, providing detailed feedback and designing practice problems.

PROJECTS

CONTEXT | *Python, SQL, MySQL, ML, Flask, Docker, Streamlit*

Belgium Study Abroad | May 2024

- Developed a full-stack platform that helps users discover abroad destinations and connecting with moving company routes, utilizing **Python** for the back-end and **Docker** for containerization.
- Consumed **2 machine learning models** with **93%(R^2)** using **EuroStat API** to match users with countries.
- Designed a database in **MySQL** connecting to custom **Flask REST API** for UI updates on maps and tables.

HARMONY | *C#, Python, Flask, Unity3D, Terra API, Apple Health SDK*

HackMIT | Sep 2024

- Prototyped a music therapy app for **Meta Quest**, generating music through dance movements and bio data.
- Integrated biometric data from the Apple Watch into **Unity3D** with a webhook endpoint using **Python** and **Flask**, handling HTTP requests to streamline data flow through the **Terra API** and Apple Health SDK.

PUBLICATIONS

IEEE Symposium on Mixed and Augmented Reality (ISMAR)

Daejeon, South Korea | Oct 2025

- Field Dependence as a Predictor of VR Cybersickness Dropout
- Predicting VR Cybersickness Susceptibility from Gaze Behavior

Peer-Reviewed Paper | First Author
Conference Poster | Co-author

LEADERSHIP & ACTIVITIES

Northeastern Virtual Reality | President & Tech Lead

The Calculus Project | Math Tutor

Handshake AI | LLM Model Validation Expert Fellow

Northeastern University | Orientation Leader

Interests: Improvised cooking and cook-offs, Hiking (Path of the Gods in Italy), Movies on a rainy day