# Brady Li

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## Education

**Northeastern University** **Expected: Apr 2027**
B.Sc. in Computer Science, Minor in Cognitive Psychology | **GPA:** 3.86/4.0 Boston, MA
**Relevant Coursework**: SWE & Data in International Gov, Databases, Systems, UX, Object-Oriented Programming

**University of Oxford | Exeter College** **Jun 2025 – Aug 2025**
Study Abroad | Quantum Computing and Philosophy | Shor's Algorithm Paper 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** Jan 2025 – Jun 2025
Babel Street | Rosette Names Team 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** Mar 2023 – Present
Reality Design Studio | Research Team 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** Sep 2025 – Present
Khoury College of Computer Science 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 **Peer-Reviewed Paper** | First Author
- Predicting VR Cybersickness Susceptibility from Gaze Behavior **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