Brady Li

li.bra@northeastern.edu • linkedin.com/in/brady-li • github.com/bradylii • bradyli.dev

EDUCATION

Northeastern University — Boston, MA
B.Sc. in Computer Science Candidate | *Cognitive Psychology Minor* | **GPA**: 3.86 / 4.0 — **Expected: Apr 2027**

Oxford University | Exeter College — Oxford, England
Study Abroad | *Quantum Computing and Philosophy* — **Jun 2025 - Aug 2025**

Relevant Courses: SWE & Data in International Politics | Database Design | UX | Object-Oriented Design | Algorithms and Data

TECHNICAL SKILLS

Programming Languages: Java | Python | C# | SQL | Shell Scripting | JavaScript | React
Tools: Git | Docker | Jenkins (CI/CD) | AWS EC2 | ElasticSearch | MongoDB | MySQL | Maven | IntelliJ | Figma | Copilot & LLMs
Frameworks: Unity3D | Flask | JUnit Testing | Swing | Streamlit | Vuforia | Azure Spatial Anchors | Meta All-in-One SDK

EXPERIENCES

Algorithms Teaching Assistant — Aug 2025 - Present
Khoury College of Computer Science — *Boston, MA*
- Assisting students in CS3000: Algorithms & Data Structures, a foundational course covering algorithmic problem solving, graphs, time complexity, and recursion. Leading office hours, design course work, and grade assignments with feedback.

Spatial Computing Engineer — Mar 2023 – Present
Reality Design Studio | *Research Team* — *Boston, MA*
- Developed and managed a **50+** participant VR Cybersickness study with 3D scene replay functionality using **C#** to visualize **1,000,000+** lines of CSV eye gaze datasets for user behavior analysis across **100+** sessions.
- Engineered spatial AR Art Gallery experience in **Unity3D** for HoloLens2, enabling real-time image tracking and immersive audio playback in AR, which was presented at the **67th HFES** conference and New Music Blacksburg Concert.

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** including **8x** better Korean matching and new customer parameter logic, pushing **Agile** sprints.
- Engineered a dynamic **Jenkins/Maven CI/CD** pipeline with obfuscation for new limited-edition SDK and release workflow.
- Migrated and updated legacy **MongoDB** server to latest on **AWS EC2**, designing a custom JSON **shell scripting** process that skipped **10+** intermediate version upgrades; reducing downtime and storage size by **87%**.
- Customized linkage algorithm in **Python** for new product MVP with internal pairwise **API**, handling noisy data.

President & Tech Lead — Jan 2023 – Apr 2025
Northeastern Virtual Reality — *Boston, MA*
- Architected semester-long XR projects, defining **Jira** stories and managing **Git** pull requests to drive **Agile** development.
- Led community with **400+** members, organizing industry and research speaker events, and teaching members how to develop XR applications with **Unity3D C#** workshops.

PROJECTS

HARMONY | *C#* | *Python* | *Flask* | *Unity3D* | *Webhook* | *Terra API* | *Apple Health* SDK — **HackMIT** | Sep 2024
- Prototyped a **VR** music therapy application for **Meta Quest 3**, generating music through dance movements and bio data.
- Integrated real biometric data from the Apple Watch into **Unity3D** by setting up a webhook endpoint using **Python** and **Flask**, handling HTTP requests to streamline data flow through the **Terra API** and **Apple Health SDK**.

CONTEXT | *Python* | *SQL* | *MySQL* | *ML* | *Flask* | *Docker* | *Streamlit* — **Belgium Study Abroad** | May 2024
- Developed a **full-stack** data-driven platform that assists users in discovering ideal abroad destinations and connecting with moving companies, utilizing **Python** for the back-end and **Docker** for containerization and deployment.
- Consumed **2 machine learning** models with **93%** (R^2) using **EuroStat API** data to match users with desirable countries.
- Designed a database in **MySQL** connecting to custom **Flask REST API** for dynamic Streamlit UI updates on maps and tables.

PUBLICATIONS

IEEE International 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