

# IVY HUYNH

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## EDUCATION

### Case Western Reserve University

Aug 2021 - May 2025

BSc in Computer Science, Minors in Mathematics and Computer Gaming

Cleveland, OH

- **Major GPA: 3.9, Dean's High Honor:** consistently from 2021-2024
- **Representative, Women in Tech CWRU** at Grace Hopper Celebration, 2023
- **Relevant Coursework:** Software Engineering, Data Structures & Algorithms, OOP, Web Development, Database System, AI, Fintech, Operating System, Linear Algebra, Probabilities, Statistics for Engineers, Spreadsheet Basics for Business Majors

## SKILLS

**Languages:** KDB-Q, Java, C/C++, C#, Python, JavaScript/TypeScript, HTML, CSS, SQL

**Technologies/Frameworks:** KX Dashboard, React/Redux, NodeJS, Spring Boot, AWS, Unity, Mixed Reality Toolkits, Git, JUnit Testing

**Certifications:** Google Project Management: Professional Certificate (2024), Meta Social Media Marketing Professional Certificate (2024)

## EXPERIENCE

### Global Markets Information Technology Analyst

Jun 2024 - Aug 2024

Nomura

New York City, NY

- Designed and implemented a KDB+ and Q process monitoring dashboard, boosting analytics visibility and efficiency.
- Streamlined real-time analytics updates using pub-sub technology, reducing latency and ensuring up-to-date data.
- Enhanced data validation integrity by creating and enforcing a count check rule for 8 datalake tables.
- Applied data analytics techniques to support business decisions, gaining insights into the company's financial aspects.

### Digital Developer Assistant

Sep 2022 – May 2024

Case Western Reserve University

Cleveland, OH

- Designed and developed an AR chess game on Microsoft Hololens 2, with animations using the university's native SDKs and Python.
- Secured \$50,000 annual funding for Mixed Reality projects through a presentation to 20+ university supporters.
- Led the haptic feedback project team, ensuring project milestones were met and achieving a 90% tactile simulation accuracy.

### Software Development Engineer Intern

May 2023 – Aug 2023

Interactive Commons

Cleveland, OH

- Developed a Unity-based rocket prototype on Microsoft Hololens v2 for NASA engineers and interns, leading to future collaborations.
- Experienced motion tracking functions on 2 other AR/MR glasses (Xreal, Meta Quest 2) by building projects with their native SDKs.

## PROJECTS

### Library Management System | Java, FXML, JDBC, MySQL, AWS RDS

Mar 2023 – May 2023

- Led a team of three in an Agile environment, executed a project in developing a user interface to update over 1000 books and track 500 library transactions.
- Hosted the database in an AWS RDS MySQL instance, reducing infrastructure and maintenance costs, using JDBC to connect frontend and backend.

### Personal Finance Tracker | JavaScript, React, Express.js, MongoDB

Oct 2022 – Dec 2022

- Developed a web application allowing users to track expenses, set budget goals and view spending trends.
- Developed forms to log various expense types with fields including amount, date, category and host database with MongoDB.

### Pathfinding Algorithm Visualization | Python and Pygame

Mar 2022 – May 2022

- Built a web application to compare path-finding algorithms such as Dijkstra's, A\*, and Breadth-First Search using Python.
- Leveraged Pygame's responsive grid system, styled UI elements with pre-built components and structure page layouts, add interactivity and ensure responsiveness.

### Xreal AR Glass Independent Project | Unity, NRS SDK, Android Studio, C#

Feb 2022 – May 2022

- Leveraged the Xreal SDK to prototype spatial interactions, integrating features such hand tracking and environment detection into a demo with 3D assets in Unity3D/AR using C#.

## LEADERSHIP & ACTIVITIES

### Teaching Assistant

Aug 2022 – Dec 2023

Case School of Engineering, Data Structure and Algorithms

Cleveland, OH

- Led weekly recitations for over 50 students, resulting in about 15% improvement in their assignment scores.
- Graded 200+ assignments each semester, developed 5 course materials in collaboration with professors.

### Microsoft Learn Student Ambassador

Jul 2023 – Dec 2023

Microsoft Hololens and Mixed Reality concentration

Cleveland, OH

- Spearheaded 4 workshops on Mixed Reality and HoloAnatomy, reaching over 100 participants from CWRU Cancer Center researchers and Cleveland high school students.