

# Ryan Kim

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## EDUCATION

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- Ph.D. Candidate in Computer Science** Sep. 2022 — Current  
*Department of Computer Science and Engineering, New York University* *New York City, NY, USA*
- *Topics:* Augmented/Virtual Reality (AR/VR), Virtual Agents, Urban Simulation
  - *Funding:* U.S. DoE - Graduate Assistance in Areas of National Need (GAANN) - award P200A210096
- Master of Engineering in Computer Science** Aug. 2019 — May 2020  
*Cornell Tech, Cornell University* *New York City, NY, USA*
- *Topics:* Algorithms and Data Structures, AR/VR, User Experience (UX) Research Methods
  - *Honors:* Cornell Tech Merit Scholarship
- Bachelor of Arts in Information Science** Aug. 2014 — May 2018  
*College of Arts & Sciences, Cornell University* *Ithaca, NY, USA*
- *Topics:* Web Design / Programming, Human-Computer Interaction (HCI), UX Design

## INDUSTRY EMPLOYMENT

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- Contractor: Curriculum Developer** May 2021 – Aug. 2022  
*MIMO* *Seoul, South Korea*
- Deployed a 14-module online curriculum based on Bloom's Taxonomy to teach 5k+ users about React development
  - Implemented a Jest-based unit test framework for parsing and validating students' JavaScript and React.js code
- Contractor/Consultant: UX Designer & Front-End Engineer** Aug. 2020 – Apr. 2021  
*Tucan Fitness* *Seoul, South Korea*
- Optimized the code and design aesthetics of Tucan Fitness' online interfaces for virtual race management and account registration, improving user retention by 170%
  - Established a UX-based workflow for collecting, coding, and analyzing user interviews and feedback
- Co-Founder: Chief Design Officer & Front-end Engineer** Jan. 2020 – Feb. 2021  
*OnePlace* *New York City, NY, USA*
- Co-found OnePlace with Cornell Tech alumni to develop an encrypted file-sharing web service for families
  - Translated high-fidelity user interface wireframes into OnePlace's web application using React Native
  - Evaluated OnePlace's UX front-end features in weekly sprints based on early adopter feedback and feature requests
  - Consulted with co-founders on opportunities for company growth, outreach, and venture capital funding
- Contractor/Consultant: Engineer** July 2018 – Aug. 2019  
*eCornell, Cornell University* *Ithaca, NY, USA*
- Developed a Node.JS-based auto-grader capable of parsing and grading students' HTML, CSS, and JavaScript
  - Provided consultation to other eCornell courses on best methods to integrate unit testing into lesson material

## ACADEMIC EMPLOYMENT

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- Teaching Assistant** Jan. 2024 — May 2024  
*CS-GY 6313 — Information Visualization* *New York University*
- *Supervisor:* Dr. Qi Sun
  - Prepared Python notebooks, instructions, and grading guidelines for homework and project materials
  - Supervised weekly Office Hours sessions to advise students on programming and project-related questions
- Teaching Assistant** Aug. 2017 — May 2018  
*INFO 1300/2300 - Introductory / Intermediate Design and Programming for the Web* *Cornell University*
- *Supervisor:* Dr. Kyle J. Harms
  - Formulated grading guidelines on student projects for all teaching assistants during grading sessions
  - Supervised weekly discussions and Office Hours to advise students on programming and design-related questions

## TECHNICAL SKILLS

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**Programming & Markup Languages:** C#, Python, HTML5, CSS3, JavaScript, PHP, SQL, C, C++  
**Frameworks & Libraries:** OpenXR, React.js, React Native, Node.js, Angular, jQuery.js, D3.js  
**Developer Tools:** Meta Quest/Quest 2/Quest 3/Quest Pro, Unity3D, Photoshop, Figma, After Effects, Git, Cinema4D