

# James Z. Zhang

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## PROFESSIONAL EXPERIENCE

### MINDTAPP

October 2021 – Present

Software Engineer Intern

Riverside, CA

- MINDTAPP (Mind Training Application) is a mobile app that empowers a user to tap into their best self via mindset training ([mindtapp.com](#)).
- Tested and debugged the code for the front-end of the app in Dart using Flutter.
  - Implemented the design and layout of tutorials for the games of the app to enable user interaction.
  - Accounted for the different aspect ratio of 900+ user devices by relying on MediaQuery to individualize user experience.

### Augmented and Virtual Reality Network Lab

November 2021 – Present

Research Assistant

Riverside, CA

- Installed Microsoft's Mixed Reality Toolkit with Unity to compute an interactable mixed reality experience for the HoloLens 2.
- Assembled Visual Studio Solutions to build and deploy apps for the HoloLens 2. Uploaded .bytes file produced by apps onto Amazon's S3 via AWS SDK for .NET to store and retrieve polygon meshes of scenes.
- Investigated potential latency issues present within the Scene Understanding SDK of Mixed Reality Toolkit to boost the efficiency of large scale projects.

## PROJECTS

### Cutie Attack (Virtual Reality)

- A game that involves slinging cuties to annihilate the apples hiding within the fortresses (inspired by Angry Birds).
- Created in C# with Unity; game physics were simulated by Rigidbody and FixedJoint components.
- Tracks hand motion with OVRInput when slinging the cuties back to measure the distance between the projectile and slingshot to calculate the velocity of the projectile when released from the slingshot.

### Enter the Abyss Game

- Worked in a team and relied on GitHub to maintain version control of an endless text-based dungeon crawler built in C++.
- The 30 types of mobs, items, and dungeon floors were integrated through abstract classes and pure virtual functions.

### Krispy Kreme Digital Dozens Email Sender

- Utilized Python's built-in smtplib module to reduce the time needed to manually send out 50+ emails.
- Parsed a csv file with the recipients of digital dozens matching their respective digital dozens to automatically send the emails by a designated time – generating a profit of \$200+ for the Psi Chi fundraiser.

## EDUCATION

### University of California, Riverside (UCR)

June 2022

Bachelor of Arts in Psychology, Minor in Computer Science

GPA: 3.9

- Technical Interview and Coding Support (Treasurer)
- Psi Chi, Honor Society in Psychology (Treasurer)
- Senryu Taiko (Core Member)

## SKILLS & INTERESTS

- **Skills:** Git; C++, C#, Python, HTML/CSS, JavaScript; Unity; MATLAB, budgeting for events; team-oriented
- **Interests:** skateboarding; playing taiko; playing video games; working out; J-Pop, lo-fi; Black Mirror