

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 layout of profiles and tutorials for the games in 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

Project OnSite

- Project OnSite is near-instant roll call service built in Python using OpenCV and face recognition libraries to identify the face of each student and mark them present for class. Project OnSite was the recipient of 3 different categories at Citrus Hack 2022 — Inland Empire's largest, premier hackathon with 180+ participants.
- Through the use of Twilio's API, Project OnSite was capable of giving live feedback via SMS to notify students whether they were marked absent or present for roll call and leave proof to prevent erroneous marked absences.

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.

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