

Arian Torshizi

(916) 305-8724 | atorshizi13@gmail.com | [linkedin.com/in/Arian-Torshizi/](https://www.linkedin.com/in/Arian-Torshizi/) | [atorshiz.github.io/Personal_Projects](https://github.com/atorshiz/Personal_Projects)

EXPERIENCE

Software Developer/Research Intern

March 2023 – October 2023

University of California San Diego

San Diego, CA

- Developed and enhanced **software applications** within a research lab environment, focusing on **advanced rendering** techniques and machine learning applications.
- Engineered a **Python**-based program utilizing a physically based renderer (Mitsuba) to enable the rendering of specified scenes from arbitrary viewpoints, which was to be used to train a **Machine Learning Pipeline**
- Participated in the design and development of a machine learning model tailored for **rendering novel scene viewpoints**
- Adapted an existing jointly-optimized NeRF pipeline, which achieved an average improvement of 21%, to work through arbitrary phase optics

EDUCATION

University of California San Diego

San Diego, CA

Master of Science in Computer Engineering

Oct. 2024 – Dec 2025

- Beginning M.S. degree in Fall 2024

University of California San Diego

San Diego, CA

Bachelor of Science in Computer Engineering

Oct. 2020 – Jun 2024

- GPA: 3.98
- Relevant Coursework: Software Engineering, Algorithms, Adv. Data Structures, Computer Vision, Deep Learning
- Student Organization: UCSD Scholar's Society

Woodcreek High School

Roseville, CA

High School Diploma

Oct. 2016 – Jun 2020

- GPA: 4.33
- Activities: Teaching Assistant (Calculus, Statistics), National Honor Society, California Scholarship Federation

PROJECTS

Detailed Project descriptions can be found on [GitHub](#)

CloudImage | *Java, Spring Boot, PostgreSQL, AWS S3/EC2, Android, React*

Jun 2024 – Aug 2024

- Android and Web app for capturing and storing images in the cloud, connected using **Spring Boot** server
- Backend server runs on **AWS EC2**, images are stored on **AWS S3**, and user data is managed with **PostgreSQL**
- Frontend **Android** app and Web app built using **React** and user Authentication using **JWT**

PantryPal | *Java, OpenAI APIs, MongoDB, RESTful APIs, Agile, Web Server*

Oct 2023 – Dec 2023

- Desktop app to transcribe food ingredients and generate possible recipes and images with **OpenAI APIs**
- Built local **Web server** for client to allow multi-platform scalability, recipes for each user on **MongoDB**

Tarot Card Reader | *HTML, CSS, Javascript, Jest, Firebase, Agile*

Mar 2024 – Jun 2024

- Web app to generate daily fortunes using **VertexAI** and do tarot card readings
- Hosted on **Firebase** and connected to Firebase database to store user data and fortunes history

SKILLS

Programming Languages: Java, Python, C/C++, SQL, HTML, CSS, Javascript

Development Tools: AWS, Android, MongoDB, Firebase, Web Servers, REST APIs

Platforms and Frameworks: PostgreSQL, Spring Framework, React

Development Tools: Git, GitHub, Linux, Gradle, Docker, Agile Methodologies, Software Design Patterns

Soft Skills: Excellent debugging, problem solving, and collaboration skills

Spoken Languages: English, Farsi

AWARDS

Henry G. Booker Memorial Honors Award

UCSD Chancellor's Scholarship

UCSD Provost Honors