

# CENGİZ OZEL

cozel@cs.rochester.edu • (585) 551-0483 • github.com/cengizozel

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## EDUCATION

**University of Rochester**, Rochester, NY, Major GPA 3.08  
Bachelor of Science in Computer Science

August 2022

## RESEARCH PROJECTS

### Hi5 Synthetic Hand Dataset for Pose Estimation

June 2022 - Present

Creating a computer vision pipeline for an extensive dataset, using Unity to generate annotated synthetic hand images for pose estimation models. I contributed by implementing data augmentation and visualization techniques with OpenCV. Our pipeline accelerates dataset generation, saving time and costs, while our trained model rivals state-of-the-art models in the field.

### Standardized Online Patient for Healthcare Interaction Education

September 2022 - Present

Developing SOPHIE, an accessible virtual human chatbot for medical students to practice end-of-life conversations, based on an established study at the University of Rochester Medical Center. Using the GPT and MetaHuman framework in Unreal Engine 5, I created a page to assess users' skills with SOPHIE and optimized the post-conversation feedback system to improve student performance.

## EXPERIENCE

**University of Rochester**, Rochester, NY  
Research Assistant at the ROC-HCI Lab

June 2022 - Present

- Collaborated with diverse teams across multiple projects to adapt to various responsibilities, which resulted in successful project completion and strong professional relationships.
- Mentored undergraduate research assistants and provided guidance on computer vision methodologies to encourage their professional growth and project contributions.

**University of Rochester**, Rochester, NY  
Teacher Assistant for a Java course

January 2021 - May 2022

- Ensured a smooth Java course experience through bi-weekly lab sessions, hands-on guidance, concept clarification, and grading projects with constructive feedback.
- Collaborated with the professor in weekly meetings to refine class structure and track student progress, resulting in improved Java comprehension, performance, and course satisfaction.

**University of Rochester**, Rochester, NY  
Teacher Assistant for a MATLAB course

September 2020 - December 2021

- Aided students in a MATLAB course with weekly lab sessions, task assistance, and concept clarification for a successful learning experience.
- Graded labs, projects, and presentations with detailed feedback to foster a positive learning environment that improved student comprehension and course performance.

## SKILLS

**Languages:** Fluent in English and Turkish

**Programming Languages:** Python, Java, C, C#, C++, MATLAB, R, JavaScript, Swift, SQL

**Machine Learning:** Linear/Logistic Regression, Neural Networks, Transformers, PyTorch

**OS and Other:** Bash Shell Scripting, Microsoft Windows, MacOS, Linux/Unix, Android, iOS

**Courses:** Artificial Intelligence, Data Mining, Human-Computer Interaction, Web Programming, Mobile App Development, Design and Analysis of Efficient Algorithms

**Software & Tools:** Microsoft Office, Google Workspace, Android Studio, Xcode