

# HAJIN PARK

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## EDUCATION

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**Bachelor of Science Computer Science** — University of California, San Diego **Expected: June 2026**  
**Relevant Coursework** — Introduction to Artificial Intelligence, Networked Systems, Programming Language Design, Theory of Computation, Computer Organization and Assembly, Algorithm Design and Analysis, Advanced Data Structures **GPA: 3.80/4.00**

## TECHNICAL SKILLS

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**Languages** — Python, C, C++, R, Java, Lua, PostgreSQL, JavaScript, HTML, CSS, LaTeX, MIPS Assembly  
**Technologies** — Git, Firebase, PyTorch, OpenCV, Flask, SQL, NoSQL, Node.js, React.js, Android Studio, Agile

## WORK EXPERIENCE

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**Instructional Assistant** | University of California, Merced **August 2023 - August 2024**

- Assisted Calculus 1 and Physics 1 courses with 120 undergraduate students by guiding problem sets during lecture and discussion sessions and holding weekly office hours, increasing student engagement and test scores
- Received formal training through a semester-long course integrating education theory, teaching, and practice to enable effective learning in a university setting

**Web Development Intern** | Merced Senior Citizens, Inc. **June 2023 - August 2023**

- Programmed a user-facing website using React.js, Tailwind CSS, and Firebase while achieving an annual upkeep cost of \$12 for a community of 500+ active members
- Designed and implemented an admin dashboard interface with user authentication to update a Firebase NoSQL Cloud Database, enabling non-technical staff members to independently manage site content

## RESEARCH EXPERIENCE

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**Research and Development Intern** | Salk Institute for Biological Studies **June 2024 - September 2024**

- Implemented bug fixes and new features for the lab's software system, a deep learning and computer vision-based application used by 15,000+ active users, following formal CI/CD and code review procedures
- Migrated data pipes and data loaders from TensorFlow to PyTorch and performed benchmarks on model training and inference pipelines, achieving over 20% time performance improvements in the machine learning backend.

**Research Intern** | Pervasive Autonomous Networked Systems Lab at UC Merced **August 2023 - December 2023**

- Practiced research design and development processes such as effective paper analyses and presentations under the mentorship of research assistants from the lab
- Processed experimental data collected from ambient building and pedestrian vibrations by implementing a signal filtering data pipeline and created a continuous-integration workflow with GitHub Actions and Pytest

**Undergraduate Research Fellow** | Google ExploreCSR Program **November 2022 - May 2024**

- Spearheaded team efforts to develop the research poster "V-Quip: A Vision-based Impromptu Polling System for the Classroom", presented at the 2023 UC STEM T3PN Conference and 2023 Greater Minds in STEM Conference
- Worked with faculty and students across three universities to study computational research, exploring applications of computer vision models (object detection, gesture recognition, pose estimation) in instructional settings

## PROJECTS

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**Spotify Translator** | Python Package — CLI Tool **March 2024 - Present**

- Building a lyric translation/transcription tool publicly available on the PyPi python package platform using the Spotify Web API, OpenAI's Whisper Speech Recognition model, and Meta's Demucs Music Source Separation model

## LEADERSHIP & VOLUNTEER EXPERIENCE

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**Google Developer Student Club** | Co-Founder, Outreach Coordinator **August 2023 - May 2024**

**Kappa Sigma Fraternity** | Web Developer, Executive Committee **April 2023 - January 2024**

**Association for Computing Machinery** | AI Lead **April 2023 - January 2024**

## INTERESTS

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Valorant (Top 600 North America), Guitar/Ukulele/Classical Piano, Music Production, Track and Field, Cross Country