

Seonghyun Park

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EDUCATION

University of California, Berkeley

Bachelor of Arts

Major in Computer Science

Continuing as Master of Science in Computer Science

Berkeley, CA

Expected Graduation: May 2025

Cumulative GPA: 3.72/4.00

Expected Graduation: May 2026

Relevant Coursework: Deep Neural Network, Computer Vision, Operating Systems and System Programming, Internet: Architecture and Protocols, Data Structures, Database Management Systems, Linux System Administration, Machine Structures, Computer Graphics and Imaging, Computational Human Vision, Extended Reality Development

PROFESSIONAL EXPERIENCE

Lead Undergraduate Researcher (*Python, C#, Unity, Scenic*)

DOP Center

May 2024 - Present

Berkeley, California

- Conducted research and development on Mixed Reality Stroke Rehabilitation in collaboration with UCSF and Stanford
- Led a team of 8 undergraduates to develop a comprehensive MR stroke rehabilitation application for Meta Quest 3
- Implemented key features, including creating training scenarios, recording trajectory points, processing data with Dynamic Time Warping, and building a network pipeline to transmit patient data and task information to a server using ZMQ
- Designed and implemented personalized algorithms tailored to patients' range of motion, creating progressively challenging tasks that adapted as patients succeeded

Augmented Reality Development Extern (*Javascript, Lens Studio*)

Snap Inc.

Mar 2024 - April 2024

Remote

- Collaborated with the AR development team to develop an AR Lens for Snap Inc. using Snap's Lens Studio Software
- Tested and optimized AR experiences to ensure optimal performance across different devices and platforms

Software Engineering Intern (*Python, Javascript, Django, PostgreSQL, HTML/CSS*)

OrangeShine

May 2023 - Aug 2023

Cerritos, California

- Implemented prefetching and indexing in Python, Django to optimize database access, leading to up to 40% improvement in page response times on certain web pages and significantly reducing server load
- Developed 5+ Django-based web application using REST APIs for vendors to manage and edit shipment box sizes with integrated data validation, capturing user inputs and syncing them with a cloud-based SQL database
- Played a major role in upgrading Python and Django affected 10+ company applications, involving modifications to existing codebases, ensuring alignment with the latest software versions for improved security and performance

Software Engineering Intern (*React, Javascript, HTML/CSS*)

Boram Cooperation

Aug 2022 - Nov 2022

Remote

- Implemented and developed a responsive design framework using Bootstrap, optimizing cross-platform compatibility and performance across desktop, mobile, and tablet devices, thereby enhancing user accessibility and interaction
- Enhanced website accessibility and performance, resulting in a 25% increase in user satisfaction based on internal reviews
- The resulting website was well-received by the staff, enhancing the company's online presence and accessibility

RELEVANT EXPERIENCE

1st place in Stanford XR Hackathon Meta Track | Stanford Immerse the Bay

Nov 2024

- Led the MR development of "Forgotten World," utilizing multiplayer, Mixed Reality, and colocation technologies

Course Instructor | XR Development (CS198)

Aug 2024 - Present

- Designed and delivered course content, leading lectures and evaluating student performance.

UGSI1 / Academic Intern | Data Structure (CS61B) and Machine Structure (CS61B)

Aug 2023 - May 2024

- Supported instructional delivery, facilitated student learning, and graded assignments

SKILLS

Programming Languages: Python, Java, C++, C, Swift, Go, Assembly, HTML/CSS, JavaScript, SQL, C#, Scenic

Technologies/Frameworks: Django, React, Unix, Linux, RISC-V, Git, Docker, Kernel, AWS, Spring, MongoDB, Unity, PostgreSQL