jaeylee@stanford.edu • 334-748-0022 • Stanford, CA • linkedin.com/in/daniellee0115 • github.com/daniellee0115

KEY TECHNICAL SKILLS

Programming Languages:	Python, C++, JavaScript, SQL
AI and Cloud Tools:	PyTorch, TensorFlow, NumPy, Pandas, LLMs, NLP, CV, AWS, Linux

EDUCATION

Stanford University, Computer Science (MS) – Artificial Intelligence

- Stanford University, Computer Science (BS) Artificial Intelligence, Senior, GPA: 4.026
 - Tau Beta Pi, Stanford Astronomical Society (President), Stanford ACM, Stanford IEEE (Financial Officer), Stanford Matriculate

EXPERIENCE

Software Development Engineer Intern - Network Capacity Services Amazon Web Services (AWS), Seattle, WA, USA

- Migrated a network capacity planning tool to AWS, reducing costs, speeding up development, and improving maintainability.
- Built a new dashboard interface for customers on AWS, maintaining the user experience while enabling faster updates and customizable visualizations.
- Deployed to production, ensuring satisfaction for both customers and engineers.

Machine Learning Intern

SLAC National Accelerator Laboratory, Menlo Park, CA, USA

- Developed automated conversion of ML model architectures into VHDL code for FPGA deployment.
- Accelerated ML model deployment on FPGA hardware, improving processing efficiency and reducing development time.

Al Graphics Lab Machine Learning Intern

NCSOFT, Pangyo, Seongnam, South Korea

- Built a machine learning model for audio-driven facial rig value prediction with emotion integration.
- _ Established an end-to-end pipeline to create Unreal Engine facial animations from input audio.
- Sped up character animation process by 7x.

Software Engineering Intern

- SLAC National Accelerator Laboratory, Menlo Park, CA, USA
 - Built a real-time GUI for viewing X-ray images with integrated image processing features to simplify workflows.
 - Enabled scientists to efficiently process incoming images and visualize them with statistical insights.
 - Deployed to production.

PROJECTS

Mercedes-Benz Meeting Prep Assistant

- Built an AI-powered assistant using GPT-4o to deliver voice-based meeting summaries while driving.
- Integrated calendar schedules, LinkedIn profiles, and Wikipedia pages to provide real-time, concise insights on meetings, attendees, and topics.
- Automated meeting preparation, enhancing driver productivity by offering essential details in a hands-free format.

Automatic Email-to-Calendar Event Synchronization App

- Created an application for automated email-to-calendar event synchronization using LLMs, streamlining scheduling processes.
- Minimized manual scheduling efforts, enhancing productivity and efficiency for users.

Knowledge Navigator Utilizing LLMs

- Enhanced document keyword search by developing a GUI that utilizes LLMs for accurate query responses with citations.
- Achieved a 4x speed improvement over traditional document search methods, significantly boosting user efficiency.

Generating Ray-Traced Images from Rasterized Renders Through ML

- Trained a conditional GAN (cGAN) to predict rav-traced renders from rasterized inputs.
- Achieved 4.5x faster performance than traditional ray tracing while maintaining comparable image quality. 09/2022-12/2022

Audio-to-Face ML Model

- Enhanced an audio-to-face model by modifying its architecture.
- Achieved 60% faster convergence without any loss in performance.

06/2022-08/2022

01/2024-06/2024

09/2023-12/2023

02/2024-03/2024

04/2023-06/2023

06/2024-09/2024

09/2023-05/2024

06/2023-08/2023

09/2024-06/2025

09/2021-06/2025