

Daniel Park

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Education

University of Florida (UF) - Gainesville, FL

May 2026

Bachelor of Science in Computer Science, Minor in Digital Arts and Sciences

GPA: 3.8/4.0

- **Awards:** National Milton Wolf Prize in Student Advocacy (2022), FL Academics Scholars Award (2022), Highschool Valedictorian (2022), Dean's List (Fall 2022, Spring 2023, Fall 2023, Spring 2024)
- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Applications of Discrete Structures, Introduction to Computer Organization, The Complete Web Developer Course, Programming Language Concepts

Skills

Languages: Python, Java, C, C++, C#, JavaScript, MATLAB, Bash, SQL

Software/Other Tools: Git, Confluence/Jira, Agile, VMWare Workstation, Linux, Docker, React, Node.js, PyTorch, Unity, HTML/CSS, Next.js, Flask, Chakra UI, Aseprite, Langchain, Elasticsearch, NVIDIA AI Models, Streamlit

Professional Experience

NVIDIA

Santa Clara, CA

Software AV (Autonomous Vehicles) Platform Intern

May 2024 - August 2024

- Spearheaded the RecorderRag project, utilizing LangChain and Streamlit to design an AI-powered LLM chatbot for generating Elasticsearch DSL queries, reducing manual query efforts completely and improving decision-making with real-time vehicle performance insights, leading to a 150% increase in data-driven actions taken by the operations team
- Led the development of an automated Platform Config Creation Infrastructure for NDAS (NVIDIA Drive Automotive Systems) partners, utilizing JSON, CSV, and CLI tools to eliminate manual configuration tasks, increasing scalability by 50% and handling 200+ additional platform configurations monthly
- Utilized NVIDIA's DriveSim to create high-fidelity simulations for testing autonomous vehicle systems, developing and executing 200+ scenarios (urban driving, highway merging, obstacle avoidance), improving machine learning algorithm accuracy by 75% and reducing sensor-related errors by 25% in real-world tests

Northrop Grumman

Baltimore, MD

Software Engineering Intern

May 2023 - August 2023

- Developed and integrated 37 unit test methods in a C++ test class to enhance the functionality of the virtual sensors toolbox, resulting in improved 140% efficiency and accuracy of sensor systems integration
- Implemented Git hooks using Bash and Python scripts, improving version control and streamlining the development process for the repository and in Jira/Bitbucket, resulting in a 40% increase in code efficiency and runtime

UF Herbert Wertheim College of Engineering

Gainesville, FL

Data Structures and Algorithms Teaching Assistant

August 2023 - Present

- Delivered engaging data structures/algorithms curriculum to 50+ students, conveying fundamental concepts and techniques through C++, resulting in a 98% pass rate on exams
- Crafted and presented interactive training materials, breaking down intricate coding concepts into digestible modules, leading to a 76% improvement in student understanding and participation levels

Projects

DIREHelp (JavaScript, Python)

January 2024

- Trained a neural network model employing PyTorch for music recommendation, achieving an F1-score of 0.92 in recommendation accuracy after fine-tuning
- Gathered user listening history for over 10,000 users and processed more than 1,000,000 data points through the Spotify API by implementing data collection and preprocessing pipelines

Zoom Personal Assistant (Python)

February 2022

- Automated joining and leaving Zoom meetings at times for school by utilizing APIs such as PyAutoGUI and Pandas
- Curated an image detection system using PyAutoGUI to create a script to automate mouse movement and typing

Leadership

Society of Asian Scientists and Engineers (SASE)

Gainesville, FL

Executive Board Secretary

May 2023 - May 2024

- Managed a 1100+ person community for UF SASE, fostering active engagement and effective communication
- Influenced the organization's growth and development by collaborating and organizing 60+ socials and professional development workshops, resulting in a 150% increase in member attendance and participation
- Played a vital role in the smooth execution of company-related events by coordinating room bookings and securing permits from UF, ensuring successful events for an average of 300+ attendees per event