

Paul Yoon

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EDUCATION

STANFORD UNIVERSITY

Expected Graduation: Jun 2027

Bachelor of Science, Mathematics, Minor in Music

GPA: 3.8/4.0

Relevant Coursework: Linear Algebra, Differential and Integral Calculus of Several Variables, Differential Equations with Fourier Methods, Programming Abstractions, Computer Organization and Systems, Real Analysis, Probability Theory for Computer Scientists

PROFESSIONAL EXPERIENCE

SUNDIAL

Los Gatos, CA

Data Science Intern

Jul 2024 – Sep 2024

- Streamlined user fraud analysis process for Sundial's 20+ clients using Apache Spark SQL, reducing false positives and improving accuracy through optimized detection thresholds based on user behavior patterns.
- Refined Sundial's existing machine learning model (Prophet), improving forecasting and data decomposition accuracy by automating optimization of tuning parameters.
- Utilized Sundial's product internally to identify pain points to drive 5+ product enhancements for a better end user experience

WUNDERLING LEARNING CENTER

Los Altos, CA

Mathematics, Reading, Writing Tutor

Jul 2024 – Sep 2024

- Tutored 50+ students from K-12 and adjusted teaching methods to individual needs, driving rapid improvements
- Created Slingerland-based learning materials for practicing word sounds, incorporating stories and tailored exercises

TEAM LIMIT

Remote/Berkeley, CA

General Manager

Jun 2023 – Jun 2024

- Directed sponsorship and marketing campaigns for 5 companies after outreach to 200+ brands, tripling the team's revenue
- Led content ideation for 50+ videos and created 50+ evidence-based documents, leveraging YouTube trends and competitor analysis to optimize ideation strategy and maximize engagement.

Social Media Manager

Aug 2021 – Jun 2023

- Analyzed data with Twitter analytics tools to accumulate 40,000+ followers and 30M+ impressions on Limit's Twitter account
- Curated engaging social media content to build the company's community, advertise sponsorships and grow the overall brand

STANFORD SCHOOL OF MEDICINE

Stanford, CA

Research Assistant

May 2020 – Jun 2023

- Collected data and analyzed visual indicators of pain in PET/MRI scans of patients with chronic knee pain
- Presenter at the annual meeting of the Society of Nuclear Medicine and Molecular Imaging in June 2021: "SiR PET/MRI of patients with chronic knee pain reveals potential pain generators not otherwise identified with standard care: Early experience"
- Co-authored manuscript: "Sigma-1 receptor changes in chronic knee pain: Preliminary results of ten patients using PET/MRI"

PROJECTS

Explicit/Implicit Heap Allocator

Jun 2024

Unix, C

- Implemented a heap allocator in C with the "malloc", "realloc", and "free" functions optimizing for throughput and memory utilization
- Utilized an explicit list of nodes to dynamically assign best locations for new memory requests and reduce memory fragmentation
- Achieved 91% memory utilization via testing on standard memory request scripts from GDB, Firefox, and more

Stanford Christian Students App

Jun 2024 - Present

React Native, Typescript

- Implementing 10+ UI changes for a more streamlined user experience
- Maintaining code readability, function decomposition, and bug fixing among the app's 50+megabyte codebase

ACTIVITIES

STANFORD SYMPHONY ORCHESTRA

Stanford, CA

French Horn Player

Sep 2023 – Present

- Only freshman hornist for the highest level orchestra on campus
- Attend rehearsal 3 times a week for 1.5 hours and perform major classical works including Rachmaninoff, Strauss, Mahler, Brahms

KOREAN STUDENT ASSOCIATION

Stanford, CA

Political Chair

Sep 2023 – Present

- Help organize and plan weekly events related to Korean culture and other traditions
- Organize weekly presentations about Korean politics and guide discussions

ADDITIONAL

Technical Skills (Programming): Python, SQL, TypeScript, React Native, Markdown, C++, C, HTML/CSS

Technical Skills (Developer Tools): LaTeX, Vim, Unix, Git, QT Creator, Jupyter Notebook

Languages: English (Native Speaker), Spanish (Conversational), Korean (Conversational)

Other Involvement: Stanford Christian Students, Stanford Philharmonia, Stanford Student Technical Support