Shangdian (King) Han

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🎯 Personal Statement

- Full-stack research engineer.
- Proficient in software engineering, with 5+ years of experience in successfully collaborating with ML researchers to turn research into products.
- At Microsoft Research, I prototyped the new Office AI for Excel.

🎓 Education

University of California, Berkeley   Berkeley, CA
B.A. Honors Computer Science & Mathematics   May 2024

- Tech GPA: 4.0 | GPA: 3.92

🔭 Experience

UC Berkeley Electrical Engineering & Computer Sciences   Jan 2023 - Dec 2023
Researcher

- Led a team of 5 researchers to develop an ML service for circuit design on GCP and a reinforcement-learning library for circuit optimization.
- Enabled ML researchers to design optimal circuits without any prior knowledge of circuit design, reducing the design time from 1 week to 1 day.

Huawei   Sep 2022 - Dec 2022
Software Engineer Intern

- Designed, implemented, and validated a new service (for radio units) using C/C++, enabling cellular networks to support the new 5G standard.
- Optimized a deployed service, reducing its runtime complexity from exponential to polynomial.

Tsinghua University   May 2022 - Aug 2022
Research Engineer

- Used Django and Streamlit to build a service for data processing, analysis, and visualization, enabling 10+ data pipelines, including association rule learning, dynamic time warping, etc.
- Used PyTorch CNNs to recognize objects in NASA satellite images, validated the feasibility of a new product.

Microsoft Research   Sep 2021 — May 2022
Research Fellow

- Used TypeScript and C# to prototype the new Office AI for Excel.
- Used TensorFlow to improve a deployed ML classification model (LSTM + CRF). Increased F1 score from 72 to 77.

🌱 Skills

- **Expert:** Python, PyTorch, JS/TS, Rect/Next.js
- **Proficient:** C/C++