

SHANGDIAN (KING) HAN

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PERSONAL STATEMENT

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

SKILLS

Python, JavaScript, TypeScript, CUDA, Go, Rust, C, C++, Java, C#, AWS (EC2, Lambda, RDS, S3), GCP, Azure, PyTorch, Docker, Kubernetes, Spark, Ray, Airflow, React, Next.js, Tailwind CSS, Django, MySQL, MongoDB

EXPERIENCE

Research Engineer

Mar 2023 — present

Sky Computing Lab

- Spearheaded the implementation of LiveCodeBench ([ICLR 2025 & 400+ GitHub Stars](#)), a live benchmark for code LLMs, ensuring real-time performance evaluation while preventing data contamination.
- Designed a secure Docker image with repository-level context to evaluate code LLMs on a wide range of tasks, including code generation, repair, execution, and test generation ([ICML 2024 & 100+ GitHub Stars](#)).

Research Engineer

Jan 2023 — Dec 2023

Berkeley Wireless Research Center

- Led a team of 5 researchers to develop an ML service for circuit design on GCP and a reinforcement-learning library ([GitHub](#)) for circuit optimization using OpenAI Gym and Ray.
- Enabled ML researchers to design optimal circuits without any prior knowledge of circuit design, reducing the design time from 1 week to 1 day.

Software Engineer Intern

Sep 2022 — Dec 2022

Huawei

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

Research Engineer Intern

May 2022 — Aug 2022

Tsinghua University

- Built an Airflow-like service for data processing and analysis using Django, enabling data scientists to perform 10+ data pipelines, including association rule learning, dynamic time warping, etc.
- Trained, validated, and tested an object detection model for NASA satellite images using PyTorch CNNs, validating the feasibility of a new product.

Research Fellow

Sep 2021 — May 2022

Microsoft Research

- Prototyped the new Office AI for Excel using TypeScript, C#, and TensorFlow, enabling users to perform 10+ AI tasks. Shipped to the Excel product team.
- Improved a deployed ML classification model (LSTM + CRF), increasing the F1 score from 72 to 77.

EDUCATION

University of California, Berkeley

Berkeley, CA

B.A. Honors Computer Science & Mathematics

Aug 2018 — May 2024

- CS Major GPA: 4.0 | GPA: 3.9
- **Coursework:** AI, ML, Probability, Linear Algebra, Algorithms, Optimization, Compilers, Computer Security