

Yihong Song

626-726-1063 | michaelsong4399@gmail.com | linkedin.com/in/yihongs | github.com/ooys

EDUCATION

Duke University

Aug. 2022 – May 2025

Bachelor of Science, Computer Science (GPA: 4.00)

Durham, NC

Related Coursework: Data Structures and Algorithms, Computer Architecture, Advanced Algorithm Design, Computer Graphics, Computer Networks, Distributed Systems, Database Systems, Natural Language Processing, Theory of Deep Learning, Linear Algebra, Multivariable Calculus, Probability

EXPERIENCE

[OpenAI](#)

Apr. 2025 – Jul. 2025

Incoming Member of Technical Staff (Intern)

San Francisco, CA

[Roblox](#)

May 2024 – Aug. 2024

Software Engineer Intern, Infra

San Mateo, CA

- Designed and implemented language-agnostic test data management API gateway available to integration test authors in all staging environments, enabling concurrent and isolated integration testing across all Roblox services
- Simplified and centralized creation of complex data models with automated test data cleanup and provided capability for active and passive endpoint status monitoring
- Kicked off onboarding for critical service owners and distributed endpoint ownership, scalable to all Roblox teams

[Pingr](#)

Jan. 2024 – May 2024

Co-founder

Durham, NC

- Built macOS native iMessage client that broadcasts texts to individual users using SwiftUI and CoreData cache
- Launched on HackerNews and Twitter with 8k+ total engagements and fostered cohort of 45 beta testers
- Won The Cube Entrepreneurship Challenge and received \$1000 grant from Duke I&E Startup Competition

[Roblox](#)

May 2023 – Aug. 2023

Software Engineer Intern, Infra

San Mateo, CA

- Leveraged CockroachDB Change Data Capture, Kafka, HashiStack, and Grafana to construct high-performance OLAP data access solutions for downstream Data Platform teams, ensuring GDPR compliance of OLTP production database clusters during migration, impacting 25% of all Roblox tables
- Enhanced integration test coverage for Roblox's centralized storage service with Rust, Docker, and Github Actions
- Improved CDC-based database migration pipeline by enhancing Debezium connector state management workflow

[HackDuke](#)

Nov. 2022 – May 2024

Tech Team Lead

Durham, NC

- Designed systems infra for [BlueRide](#) airport rideshare app using Express backend to pair 200+ Duke students
- Led team of 8 student developers in building the 2022 and [2023 Hackduke Website](#), serving 75K+ monthly visits

PROJECTS

BetterMessages | *Electron, Next.js, Three.js, SQLite*

Jan. 2023 – May 2023

- Built dynamic macOS Electron app to quantify interpersonal relationship strengths based on messaging data
- Implemented Google OAuth for identity verification and built personalized connection networks simulated by Three.js, enabling relationship discovery within close friend networks

Starzam | *Python, Tensorflow, Scikit-learn, NumPy, pandas, Matplotlib, Git*

Aug. 2021 – May 2022

- Developed a novel asteroseismic (star-quake) technique to measure stellar properties using light curves
- Implemented fourier analysis and a deep learning neural network inspired by Shazam App
- Received category 2nd Place award at Regeneron Science and Engineering Fair (RSEF)
- Continuation of previous year's ML research: [Predicting Stellar Activity through Asteroseismic Analysis](#)

TECHNICAL SKILLS

Languages: Python, Rust, SQL, C, C#, Go, Java, Swift, JavaScript, HTML/CSS, MIPS Assembly, YAML

Libraries/Frameworks: MSSQL, CockroachDB, Firebase, MongoDB, REST API, gRPC, TensorFlow, Scikit-learn, React, Node.js, Next.js, Express.js, Electron, Tailwind

Developer Tools: Kafka, Consul, GCP, OCI, Docker, Terraform (Infra Management), Nomad (Orchestration), Vault (Key Management), Grafana (Monitoring), Prometheus, Codecov, Vercel, Git, Jira, Maya, Unity