

Anson Hu

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Experience

Jane Street

June - August 2022 | New York City

Software Engineering Intern

- Enhanced a trading-order-handling system by adding message recovery and rebuilding associated data structures on crash and restart
- Massively refactored a system to convert prices of stocks and their fungible ADRs to a common denominator and improved accessibility by adding RPC and python integrations

Facebook

June - August 2021 | Menlo Park

Software Engineering Intern

- Upgraded logging mechanism of the cluster management system to use databases for easier debugging
- Created a developer tool to visualize method call trees offline based on historical data, greatly improving debuggability and productivity

Okta

January - February 2021 | San Francisco

Software Engineering Intern

- Leveraged Envoy Proxy to route requests to an authentication microservice, reducing server load and making the system more modular

Salesforce

June - August 2019, 2020 | San Francisco

Data Science Intern

- Used deep learning to predict future revenue for individual customers
- Encoded time series data using a custom autoencoder to facilitate visualization and classification on the latent space
- Created pipelines and models to cluster and classify customers and predict win rates of business deals
- Built new model to predict trial customer conversion with 90% accuracy

University of Iowa, Hydroinformatics Lab

June - July 2018 | Iowa City, Iowa

Researcher

- Used Height Above the Nearest Drainage algorithm to help determine extent of flood inundation under guidance of Dr. Ibrahim Demir
- Decreased computation time by ~90% compared to previous models
- Published [paper](#) in *Hydrology* as first author in 2021

Projects

SaltZero 2020

Created an incredibly strong machine learning bot for Ultimate Tic-Tac-Toe based on DeepMind's AlphaGo Zero paper and inspired by similar open source projects. (Ultimate Tic-Tac-Toe is a complicated variant of tic-tac-toe played on a 9 by 9 grid.) Surpassed human play in 24 hours of training on consumer-grade hardware. Completely open source; code is at <https://github.com/farmersrice/saltzero>.

Education

Massachusetts Institute of Technology, 2023

BS, Computer Science, GPA 4.6

Relevant coursework:

- Adv. algorithms (grad level)
- Adv. data structures (grad)
- Applied cryptography (grad)
- NLP (grad)
- Distributed algorithms (grad)
- Machine learning
- Probability

Skills

Strong knowledge of algorithms and data structures

Languages

Java, C++, Python, OCaml, JS

Machine learning

PyTorch, TensorFlow, Keras, scikit-learn

Web technologies

Scrapy, Selenium, WebAssembly

Other

Git/Bitbucket, Amazon AWS

Awards and contests

Master on Codeforces (2110 elo, top 1.8% of all contestants)

Top 500 in Facebook Hacker Cup (2019, 2020, 2022)

USA Computing Olympiad Problem Author (2018)

USA Computing Olympiad National Finalist (2016)

Links

[github/farmersrice](https://github.com/farmersrice)
[codeforces/farmersrice](https://codeforces.com/profile/farmersrice)
[linkedin](https://www.linkedin.com/in/farmersrice)
farmersrice.me