

Yongwei Che

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Education

Princeton University

Princeton, NJ

B.S.E. in Computer Science, GPA: 3.95

May 2024

- **Minors:** Statistics & Machine Learning, Optimization & Quantitative Decision Science, Finance
- **Relevant Courses:** Fourier Analysis & PDE, Theory of Games, Financial Econometrics, Advanced Algorithm Design, Theoretical Machine Learning, Distributed Systems, Computer Architecture, Compiling Techniques

Work Experience

Radix Trading

Chicago, IL

Quantitative Technologist

Incoming July 2024

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Amazon

Seattle, WA

Software Development Engineering Intern

May – August 2023

- Worked on the Amazon Fleet Observer (AFO) and Kinesis Agent team, which provides fleet monitoring and alarming systems to all devices/servers (750,000+) on the Corporate network
- Optimized Ticket Processor architecture to minimize data redundancy and improve message resiliency, increasing Ticket Processing TPS by 20x
- Implemented heavily-requested customer feature, stateful two-way-sync, between AFO Alarms and Issue Management Servers

Stevens Capital Management LP

Radnor, PA

Quantitative Developer Intern

May – August 2022

- Performed market microstructure research with the Computer-to-Computer Trading Team to analyze exchange data and its effect on upcoming trades
- Built indicators and factors on the distribution of trades relative to the bid-ask spread using statistical learning and regression modeling techniques

Research

■ Language Grounding using Contrastive RL (*Senior Thesis*)

Developing agents that understand the world around them through natural language. *Advised by Prof. Ben Eysenbach.*

■ Multi-Query Approximate Lp Samplers in a Data Stream (*Junior Independent Work*)

Proposed and developed theory on a novel approximate Lp Sampler that supports multiple queries per sketch initialization. *Advised by Prof. Huacheng Yu.*

Technical Skills

- **Languages:** C(,++,#), Python, Go, JAVA
- **Libraries/Technologies:** JAX, PyTorch, TensorFlow, Linux, Git

Awards

Awards/Honors: Tau Beta Pi Engineering Honor Society (Top 20% of Princeton Engineering class), 2019 USA Physics Olympiad Semi-Finalist (Top 400 in Nation)

Extracurriculars: AI@Princeton, Princeton Running Club, Princeton Triangle Club