

Vikram Waradpande

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EDUCATION

Columbia University — New York, NY

Aug 2022 – Dec 2023

M.S. Computer Science – Machine Learning · GPA: 4.16 / 4.0

BITS Pilani — Pilani, India

Aug 2015 – Jul 2020

B.E. Computer Science & M.Sc. Mathematics · GPA: 9.31 / 10 (MCN Scholar – Top 3%)

SKILLS

Programming: Python, Java, Scala, Kotlin, C++, SQL, JavaScript, TypeScript

ML & Backend Systems: PyTorch, TensorFlow, LangChain, Apache Spark, Spring Boot, GraphQL

Cloud, Infra & Dev Tools: AWS, Kubernetes, Docker, Git, MongoDB, JUnit, PyTest

EXPERIENCE

Intuit — Mountain View, CA

Feb 2024 – Present

Senior Software Engineer

- Led team of 3 engineers to develop and ship a real-time AI agent for QuickBooks detecting recurring transactions and automating manual workflows. Achieved 70%+ suggestion acceptance rate, enabled 40% of users to leverage cash flow insights, and eliminated hours of monthly manual entry across 4M+ customers.
- Drove QuickBooks' Java/REST to Kotlin/GraphQL migration by building AI agents to auto-detect and fix gaps across 200+ features, reducing validation overhead and accelerating production rollout.
- Built a high-throughput API differencing tool (500+ comparisons/sec) to surface feature parity gaps between legacy and modernized QBO systems during Monolith-to-Microservices migration.
- Reduced Jenkins pipeline runtime by 40% (25 → 15 min) through build stage parallelization and Kubernetes volume optimization.

Aleth, Inc. — Berkeley, CA

Jun 2023 – Aug 2023

Machine Learning Intern

- Built Aleth's full-stack platform (Python, React, GraphQL, AWS) as sole engineer, enabling supplier discovery and order tracking. Implemented ML matching system; platform reached 100+ customers within weeks of launch.

Goldman Sachs — Bangalore, India

Aug 2020 – Aug 2022

Software Engineer II (Associate)

- Spearheaded development of a real-time rule-based classification and routing system for incoming trade requests (15+ req/sec), routing to the most appropriate trader and monitoring P&L statistics.
- Optimized event-driven job scheduling, reducing peak server load by 18% and unlocking capacity for an estimated \$8B of additional trade volume per year.
- Engineered a real-time pricing engine computing fair prices of 10K ETFs per second, facilitating an additional \$3B in trading flow per year.

Software Engineer Intern · May 2019 – Jul 2019

- Built React-based trading interface replacing legacy Windows app, reducing quote latency from 2s to ~200ms and enabling traders to handle ~70% higher quote volume.

L3S Research Center, Leibniz University — Hannover, Germany

Jul 2019 – Jul 2020

Research Engineer

- Developed and published a novel deep RL algorithm for discrete state-spaces using graph embeddings (DeepWalk, Graph-Autoencoders), performing 2.7× faster than baseline RL methods.

Microsoft — Hyderabad, India

May 2018 – Jul 2018

Software Engineer Intern

- Built an LSTM-based classifier powering Bing's 'overview' search results section, increasing classification accuracy by 4% over the existing model.
 - Built ETL workflows using Airflow (Spark) and Azure SQL to fetch and transform subsets of a 10+ PB corpus from Wikipedia and Google News for classification tasks.
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PUBLICATIONS & TALKS

- Waradpande V., D.K., & Khosla M. (2020). Graph-based State Representations for Deep Reinforcement Learning. Proceedings of the 16th International Workshop on Mining.
- PyCon Italia 2023 (Florence, Italy) — Talk on parallel programming using MPI in Python.
- PyCon US 2024 — Talk on fundamentals of differential privacy in Python.