

Xiaomin Liu

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EDUCATION

New York University Bachelor of Arts in Computer Science, Minor in Mathematics Coursework: Operating Systems, Deep Learning, Programming Languages, Theory of Computation, Algorithms Activities: Millennium Discovery 2025 Attendee, Tech@NYU Dev Team Software Engineer	May 2026 GPA: 3.8 / 4.0
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EXPERIENCE

Google Incoming Software Engineer Intern – Google Cloud NetInfra • Writing C++ traffic eviction algorithms to offload packet processing between SmartNIC hardware and software	Aug 2025 – Nov 2025 Sunnyvale, CA
Meta Software Engineer Intern – Structured Data Semantics • Working on UPM, a SQL compiler frontend to enable type checking and support Presto and Spark backends	May 2025 – Aug 2025 New York, NY
P4 Language Consortium (Google Summer of Code) <u>Open Source</u> Developer • Developing a custom high-level MLIR dialect using C++ to represent and translate P4 language constructs • Implemented constant folding and canonicalization passes and upstreamed <u>bug fix patches to LLVM</u>	May 2025 – Sep 2025 Remote
NYU Courant Teaching Assistant • Managed office hours and graded problem sets and exams for over 100 students in CS 310: Basic Algorithms	Sept 2024 – Dec 2024 New York, NY
Niantic Software Engineer Intern – Pokémon GO: Maps/Explore/AR • Mapped oceans from coastline data with Java & BigQuery, filtering 8 billion unreachable Pokémons spawnpoints • Reduced Pokémon GO's weather API calls by 78% and saved \$280K/year by excluding updates in ocean tiles • Wrote a quadtree merging algorithm in Apache Beam that normalized and compressed ocean data by 99.1% • Integrated Sentry's SDK into Pokémon GO to capture crash analytics, improving app stability for 100M players	May 2024 – Aug 2024 San Francisco, CA
Vantage (\$25M Series A, a16z-backed) <u>Software Engineer</u> Intern • Launched <u>Azure Active Resources</u> on Ruby on Rails to link metadata and enable filtering on \$4M of resources • Built a fault-tolerant Temporal pipeline that updates over 100,000 PostgreSQL records across 30 Azure services • Embedded multi-series line graphs into user-facing dashboards with JavaScript to help identify cost trends	July 2023 – Oct 2023 New York, NY

PROJECTS

Operating System Kernel C++, C, x86 Assembly, Python, QEMU • Built an OS kernel with memory segmentation, interrupt handling, device I/O driver, and minimal C standard lib

SKILLS

Languages: C++, Rust, Python, Java, C, JavaScript, SQL Technologies: PyTorch, MLIR, LLVM, Temporal, CUDA, gRPC, GCP (BigQuery, Spanner), AWS, Linux Interests: Systems Programming, Compilers, ML Infrastructure, Distributed Systems, Developer Tooling
