

Xiaomin Liu

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EDUCATION

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

EXPERIENCE

Google Incoming Software Engineer Intern – Google Cloud NetInfra	Fall 2025 Sunnyvale, CA
• Writing C++ traffic eviction algorithms for SmartNICs to offload packet processing under memory pressure	
Meta Software Engineer Intern – Data Understanding	
• Building an agentic, fine-tuned Python RAG bot to answer questions about UPM, Meta's internal SQL compiler	May 2025 – Present New York, NY
• Wrote Hack scrapers and Dataswarm data pipelines to extract and preprocess 1,000+ past questions & answers	
• Extended SQL grammar and C++/Python binders to support updating clustering key, sort key, and bucket count	
P4 Language Consortium Google Summer of Code Developer – p4lang/p4mlir	
• Contributing to a custom high-level MLIR dialect using C++ to represent and translate P4 language constructs	May 2025 – Sep 2025
• Implemented constant folding and canonicalization passes and upstreamed TableGen bug fix patches to LLVM	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 Pokémon spawnpoints	May 2024 – Aug 2024
• Reduced Pokémon GO's weather API calls by 78% and saved \$280K/year by excluding updates in ocean tiles	San Francisco, CA
• 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	
Vantage (\$25M Series A, a16z-backed) Software Engineer Intern	
• Launched Azure Active Resources using Ruby to link metadata and enable filtering on \$4M worth of resources	July 2023 – Oct 2023
• Built a fault-tolerant Temporal pipeline that updates over 100,000 PostgreSQL records across 30 Azure services	New York, NY
• Embedded multi-series line graphs into user-facing dashboards with JavaScript to help identify cost trends	

SKILLS

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