

# Harry Nguyen

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## EDUCATION

### Georgia State University

Expected May 2027

Bachelor of Science in Computer Science

GPA: 3.97

- **Relevant Course:** Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Operating Systems, Software Engineering, Computer Networks, Distributed Systems
- **Conferences and Clubs:** Emerging Engineering Summit, CodePathE3, GHC Conference, O4U Digital, SHPE

## EXPERIENCE

### Google | Software Engineer Intern

May 2025 – August 2025

- Achieved sub-50ms p99 latency engineering IPC transport layer with Protocol Buffers across distributed services handling 10K+ requests/sec, developing deep understanding of zero-copy techniques and memory hierarchy optimization—critical for low-latency inter-service communication in distributed architectures
- Cut settings navigation time by 96% (1200ms to sub-50ms) implementing concurrent trie-based search, gaining hands-on experience with lock-free data structures and thread-safe algorithms—foundational skills for building high-performance distributed systems
- Accelerated feature velocity by 68% architecting event-driven React system with observer pattern, learning to design loosely-coupled components that scale—principles directly applicable to microservices architecture
- Contributed to Chromium codebase (25K+ lines) with 95% test coverage, developing skills in collaborative development at scale and understanding trade-offs in large distributed codebases

### Develop for Good | Software Engineer Intern

May 2024 – August 2024

- Scaled to 500+ concurrent users architecting stateless BaaS infrastructure with distributed session management using JWT, learning horizontal scaling patterns and state partitioning—building blocks for designing fault-tolerant distributed systems
- Achieved sub-100ms response times for 10,000+ records through database optimization with strategic indexing, gaining experience with query optimization and addressing N+1 query problems—critical for data-intensive distributed applications
- Slashed deployment time by 90% streamlining CI/CD pipeline with automated testing, developing understanding of deployment strategies crucial for continuous delivery in distributed environments

### CoderPush | Software Engineering Intern

Sep 2023 – Dec 2023

- Improved data access by 30% optimizing DynamoDB partition key design to prevent hot partitions handling 9,000+ requests, gaining hands-on experience with distributed database patterns and eventual consistency trade-offs—essential for scalable data layers
- Built RESTful APIs with Redis distributed caching achieving 85% cache hit rate and idempotent payment APIs with exponential backoff retry, developing understanding of cache invalidation and failure handling—critical for distributed systems

## PROJECTS

### TiMoto AI - AI Evaluation Platform | Django, AWS ECS Fargate, gRPC, PostgreSQL, vLLM

- Architected fault-tolerant batch evaluation pipeline with dynamic batching achieving 100% success rate across 50 motorcycles and sub-50ms p99 inference latency using gRPC inter-service communication and circuit breaker patterns, developing understanding of distributed coordination and ML serving optimization—building foundation for AI infrastructure engineering
- Deployed Django backend to AWS ECS Fargate with multi-AZ configuration achieving 99.9% uptime while reducing costs 44% to \$40–60/month through infrastructure optimization and automated lifecycle management, learning cost-efficient deployment strategies and automated failover—essential for production-grade distributed systems

### Pulumi (Open Source Contributor) | Go, TypeScript, Infrastructure-as-Code

- Contributed to Pulumi (24.3k+ stars) enabling multi-cloud infrastructure management across AWS, Azure, GCP—deepening understanding of distributed resource orchestration
- Implemented Go CLI features supporting multi-cloud deployments, studying distributed consensus patterns (Raft/Paxos) in state synchronization—building foundation for fault-tolerant systems

## TECHNICAL SKILLS

**Languages:** Python, C++, C, Go, Java, JavaScript, TypeScript, Swift, Dart, SQL, Bash

**Web/Mobile Development:** React, React Native, Redux, Django, Flutter, Node.js, Next.js, REST APIs, GraphQL

**Databases/Infrastructure:** PostgreSQL, MongoDB, DynamoDB, Redis, Snowflake, Docker, Kubernetes, AWS, Google Cloud Platform, Firebase, Supabase, Appwrite, Cloudinary, Protocol Buffers, Mojo, gRPC, OpenCV, Hive, Stripe