

EDUCATION

University of Illinois Urbana-Champaign (UIUC)	Expected: December 2025
Master of Computer Science	
• Courses Taken: Advanced Distributed Computing, Computer Security, Cloud Networking, Deep Learning in Computer Vision	
Arizona State University (ASU)	August 2020 – May 2024
Bachelor of Science in Computer Science	4.00 GPA
• Courses Taken: Data Structures & Algorithms, Software Design Principles, Distributed Systems, Operating Systems, Computer Networks	

WORK EXPERIENCE

Software Engineer Intern	May 2025 – Current
PayPal Inc.	Scottsdale, AZ
• Engineering Spring Batch pipeline to automate reconciliation of over 6.5M+ failed financial events, reducing manual SQL fixes.	
• Implementing event requeue logic based on lifecycle state transitions and timestamps to ensure correctness and idempotency at scale.	
• Troubleshooting QA failures using distributed log analysis and event state inspection; validating batch behavior across systems.	
• Writing unit and integrated tests using JUnit, Mockito, and WireMock for end-to-end validation; building observability dashboards.	
Cloud/DevOps Engineer	January 2025 – April 2025
Nexus	Remote, USA
• Defined AWS architecture for multi-user coding platform, enabling CI/CD, ECS scaling , and region-based production readiness.	
• Reduced deployment time by 90% with 3 GitHub → CodeBuild CI/CD pipelines for frontend, backend, and infrastructure.	
• Refactored EC2-based stack to serverless AWS (ECS, EFS, S3, Route53, DynamoDB) with CDK, reducing infra overhead by 30%.	
• Delivered production-ready deployment in 6 weeks by aligning infra roadmap with dev workflows and cross-team priorities.	
Software Development Engineer Intern	May 2023 – August 2023
Amazon.com	San Diego, CA
• Built automated orchestration with Lambda, SQS, Java & TypeScript to back-fill a million records, saving developer time by 99%.	
• Architected 1-click reusable cloud stack using AWS:CDK to perform batching for downstream services with rate-limited TPS.	
• Constructed robust error handling mechanism with automated retries for transient errors reducing failure, ensuring 100% data integrity.	
• Tested system end-to-end using JUnit5 achieving 100% code coverage. Deployed real-time monitoring dashboard using CloudWatch .	

PROJECTS

360Torrent | Distributed Systems Engineer | Python (asyncio), Ansible, tmux, P2P Systems, BitTorrent

- Developed a **Python-based P2P CDN** for 360° video, reducing download latency by 42% via geo-aware chunk prioritization.
- Designed churn-resilient downloader using **asyncio**, adaptive health checks, and rarest-first strategy; improved reliability by 35%.
- Deployed system on 20 VMs using **tmux, tc, and Ansible**, simulating 100+ clients with region-aware network conditions.
- Integrated popularity matrix at tracker; pre-seeded hot chunks across peers, cutting startup latency by 28%.

Study Buddy | Full-Stack iOS Developer | SwiftUI, Firebase, CoreData, C#

- Engineered an **iOS app** leveraging **MVVM** to facilitate collaboration by providing a platform to search, create, and join study sessions.
- Established **Firebase-Auth**, offering users sign-in options via Email, Google, and Apple for enhanced authentication flexibility.
- Implemented local (**CoreData**) and cloud (**Firestore**) data storage, ensuring seamless data retention and optimized retrieval processes.
- Integrated **MapKit** to allow users to set study session locations. Streamlined navigation process, ensuring accuracy within a 10m range.

Banking Easy | Network Engineer | Java, Network Programming, Sockets, TCP/IP

- Implemented P2P banking application in **Java (Sockets)** leveraging **network programming** to perform parallel processing transactions.
- Created a shared customer cohort with a bank to perform 100+ transactions and update the system state in real-time.
- Reduced error rates by 30% by deploying advanced checkpoint and rollback algorithms, managing transaction conflicts, data corruption, and network failures.

SKILLS

Languages:	Java, Python, C/C++, JavaScript, TypeScript, C#, SQL
Cloud & Platforms:	AWS {CDK, Lambda, SQS, S3, EC2, ECS, CloudWatch}, Firebase {Auth, Firestore}
Testing & Automation:	JUnit 5, Mockito, WireMock, Spring Batch, CI/CD Pipelines, Git
Web & Frameworks:	React.js, SwiftUI, ASP.NET, RESTful APIs, HTML, JSON, XML