

EDUCATION

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

WORK EXPERIENCE

Software Engineer Intern	May 2025 – Current
PayPal Inc.	Scottsdale, AZ
• Engineering <b>Spring Batch</b> pipeline to automate reconciliation of over <b>6.5M+</b> failed financial events, reducing manual <b>SQL</b> fixes.	
• Implementing event requeue logic based on lifecycle state transitions and timestamps to ensure correctness and idempotency at scale.	
• Troubleshooting <b>QA failures</b> using distributed log analysis and event state inspection; validating batch behavior across systems.	
• Writing unit and integrated tests using <b>JUnit</b> , <b>Mockito</b> , and <b>WireMock</b> for end-to-end validation; building observability dashboards.	
Cloud/DevOps Engineer	January 2025 – April 2025
Nexus	Remote, USA
• Defined <b>AWS architecture</b> for multi-user coding platform, enabling CI/CD, <b>ECS scaling</b> , and region-based production readiness.	
• Reduced deployment time by 90% with <b>3 GitHub → CodeBuild CI/CD pipelines</b> for frontend, backend, and infrastructure.	
• Refactored EC2-based stack to serverless AWS ( <b>ECS</b> , <b>EFS</b> , <b>S3</b> , <b>Route53</b> , <b>DynamoDB</b> ) 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 <b>Lambda</b> , <b>SQS</b> , <b>Java &amp; TypeScript</b> to back-fill a million records, saving developer time by 99%.	
• Architected 1-click reusable cloud stack using <b>AWS:CDK</b> to perform batching for downstream services with rate-limited TPS.	
• Constructed robust error handling mechanism with <b>automated retries</b> 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 <b>CloudWatch</b> .	

PROJECTS

360Torrent   Distributed Systems Engineer   Python (asyncio), Ansible, tmux, P2P Systems, BitTorrent
• Developed a <b>Python-based P2P CDN</b> for 360° video, reducing download latency by 42% via geo-aware chunk prioritization.
• Designed churn-resilient downloader using <b>asyncio</b> , adaptive health checks, and rarest-first strategy; improved reliability by 35%.
• Deployed system on 20 VMs using <b>tmux</b> , <b>tc</b> , and <b>Ansible</b> , simulating 100+ clients with region-aware network conditions.
• Integrated popularity matrix at tracker; pre-seeded hot chunks across peers, cutting startup latency by 28%.
Banking Easy   Network Engineer   Java, Network Programming, Sockets, TCP/IP
• Implemented P2P banking application in <b>Java (Sockets)</b> leveraging <b>network programming</b> 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.
PitchPal   ML Engineer   PyTorch, Torchvision, OpenCV, CNN, MediaPipe
• Designed and implemented an <b>AI-powered multimodal analysis system</b> that evaluates elevator pitches using speech and facial cues.
• Built a nervousness classification model using <b>EfficientNet-B0</b> trained on custom-labeled facial expressions, achieving <b>80% accuracy</b> .
• Integrated eye contact detection using a <b>pre-trained CNN-based</b> facial gaze tracker, to enhance nervousness classification.
• Developed a fully automated local inference pipeline for video analysis with <b>PyTorch</b> , <b>OpenCV</b> , <b>dlib</b> , and <b>MediaPipe</b> .

SKILLS

Languages:	Java, C/C++, Python, TypeScript, C#
Development:	Web {ASP.NET, RESTful APIs, WSDL, React.js}, Spring Batch, iOS {SwiftUI}
Databases & Tools:	MySQL, JDBC, Git, JUnit, XML, JSON, Linux/Unix Systems, Ansible, tmux, CoreML, CocoaPods
Cloud Services:	AWS {CDK, Lambda, SQS, S3, ECS, EFS, EC2, RDS, API-Gateway, CloudWatch}, Firebase {Auth, Firestore}