

SIDDHARTH JAIN

Seeking Qualtrics Customer Care SWE

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EDUCATION

University of Illinois Urbana-Champaign (UIUC)
Master of Computer Science

Expected: December 2025

- Courses Taken: Deep Learning For Computer Vision, Advanced Distributed Computing, Computer Security, Cloud Networking

Arizona State University (ASU)
Bachelor of Science in Computer Science

August 2020 – May 2024
4.00 GPA

- Courses Taken: Data Structures & Algorithms, Software Design Principles, Distributed Systems, Operating Systems, Computer Networks

WORK EXPERIENCE

Software Engineer Intern
PayPal Inc.

May 2025 – Current
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
Nexus

January 2025 – April 2025
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
Amazon.com

May 2023 – August 2023
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

PitchPal | ML Engineer | *PyTorch, Torchvision, OpenCV, CNN, MediaPipe*

- Designed and implemented an **AI-powered multimodal analysis system** that evaluates elevator pitches using speech and facial cues.
- Built a nervousness classification model using **EfficientNet-B0** trained on custom-labeled facial expressions, achieving **80% accuracy**.
- Integrated eye contact detection using a **pre-trained CNN-based** facial gaze tracker, to enhance nervousness classification.
- Developed a fully automated local inference pipeline for video analysis with **PyTorch**, **OpenCV**, **dlib**, and **MediaPipe**.

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%.

FastOrder | Full Stack Engineer | *C#, ASP.NET, WCF, RESTful*

- Deployed a **Service-Oriented Web App**, using **ASP.NET**, on Web Server that imitates an E-Commerce Site for 1000+ users.
- Executed 3+ **ASPX pages**, for Users and Staff, calling Web Services to encrypt data, store cookies, update cart and pay.
- Created 5+ **WCF & RESTful Services** to manipulate XML files data, eliminating the need of Database by 100%.

SKILLS

Languages: Python, Node.js, Java, TypeScript, C/C++, C#
Web Frameworks: ASP.NET, React.js, RESTful APIs, WCF, Express.js
AWS & Cloud: AWS {CDK, Lambda, SQS, S3, EC2, ECS, CloudWatch}, Docker
Testing & Tools: JUnit 5, Mockito, WireMock, Git, Spring Batch, MySQL, Linux