SIDDHARTH JAIN

Seeking Software Engineer Position For 2026

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EDUCATION

University of Illinois Urbana-Champaign (UIUC) — Expected: December 2025
Master of Computer Science

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

Arizona State University (ASU) — August 2020 – May 2024
Bachelor of Science in Computer Science — *4.00 GPA*

- Courses Taken: Software Design Principles, Operating Systems, Distributed Systems, Computer Networks, Digital Design

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.

Software Engineering Fellow — January 2024 – May 2024
Andbounds — *Remote, USA*

- Led **CMS & iOS** app migration projects for e-commerce focused on scanning and selling custom insoles for podiatry patients.
- Leveraged TrueDepth sensors and **Core ML** with TheStandardCyborg library to detect and export 3D foot scans.
- Migrated iOS application with 40+ pages from storyboard to **SwiftUI** leveraging MVVM architecture and CocoaPods as PDM
- Integrated 15+ Shopify's Rest APIs to the iOS app to authenticate users, fetch order and user details, export scans, and place orders.

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**.

Software Engineering Tutor — August 2021 – May 2023
Arizona State University — *Tempe, AZ*

- Coached 1000+ students to master MAT courses, **Data Structure & Algorithm**, and interview prep, enhancing study strategies.
- Prepared online study materials on **Java, C++, Java-FX, Calculus I/II**, and introductory business Math, engaging 5k+ students.
- Conducted 20+ review sessions covering essential concepts to prepare for student exams, quizzes, assignments, and class projects.

PROJECTS

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.

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.**

SKILLS

Languages:	Java, C/C++, Python, C#, Typescript
Mobile & Desktop:	iOS {SwiftUI, CoreML, CocoaPods}, MVVM Architecture
Development & Testing:	Git Version Control, JUnit 5, Unit Testing, Integration Testing, Spring Batch
Enterprise & Cloud:	AWS {CDK, Lambda, SQS, S3, RDS, EC2}, Firebase {Auth, Firestore}, RESTful APIs