ARYAN GUPTA

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Education

University of Illinois Urbana-Champaign — Urbana, Illinois
Master of Computer Science — *Aug 2024 – Dec 2025*

Arizona State University — Tempe, Arizona
Bachelor of Science in Computer Science — ***GPA: 3.96/4.00**, Aug 2020 – May 2024*

Academic course-work: Data-Structures & Algorithms, Database Management, Web Programming, iOS Development, Distributed Systems, Computer Security, Cloud Computing, Deep Learning & Computer Vision.

Technical Skills

Programming Languages: Java, JavaScriptPython, C#
Web & App Development: TypeScript, ASP.NET, SwiftUI, PyQt
Databases & Tools: RDBMS (MySQL, BigQuery), NoSQL (MongoDB Atlas, Firebase), Git, Docker, Postman
CI/CD & DevOps: Harness Pipelines

Work Experience

PayPal — San Jose, California
Software Developer Intern — *May 2025 – August 2025*
- Developed monitoring solutions to track the API reliability, health of critical endpoints & overall system health.
- Utilized **React + TypeScript** and **BigQuery** to implement the interactive dashboards, and wrote unit tests using **Jest**.
- Used **Java Spring Boot** for orchestrating downstream components to handle additional PayPal platform fees.
- Built **Playwright**-based automation testing tool to auto-fill forms, creating sample accounts for testing faster by 75%.

Nexus — Remote
Software Developer (Freelance) — *Sept 2024 – Nov 2024*
- Contributed to building a collaborative IDE platform by developing interactive onboarding flows and dashboard pages.
- Utilized **React + TypeScript**, **CSS**, and META Open Graph tags for improved content sharing.
- Implemented backend using **Express.js** for REST APIs, **MySQL** for database management, and **Nodemailer** for emails.

Arizona State University — Tempe, Arizona
Undergraduate Academic Success Tutor — *Sept 2023 – May 2024*
- Prepared learning materials on Programming: Java, Math: Calculus-I & Calculus-II and Science based concepts.
- Facilitated 50+ lectures to prepare students for assignments, class projects & to foster collaborative learning.
- Instructed 1000+ students to review introductory & advanced course concepts and improve students' study strategies.

Siemens EDA — Uttar Pradesh, India
Software Developer Engineer Intern — *May 2023 – Aug 2023*
- Developed **PyQt** app, providing team with enhanced visualization capabilities of 5000+ AXI read/write transactions.
- Utilized **Python** libraries: **Matplotlib** to create detailed graphs, **NumPy** & **SciPy** to perform numerical computations.
- Enabled developers to study trends, compare & save plots efficiently, reducing the analytical time by roughly 33.3%.

Projects

360Torrent | *Python, Ansible Playbooks*
- Collaboratively built a custom P2P file-sharing system to improve video delivery based on content popularity.
- Developed a region-aware algorithm where peers download chunks from nearby peers & distribute chunks for popular files.
- Engineered the system in **Python**, and automated large-scale testing with **Ansible** across 20 virtual machines.
- New algorithms improved average file download speed by 30% compared to our baseline P2P file-sharing implementation.

PitchPal | *Python, TypeScript*
- Developed an end-to-end ML-driven system in **Python** that analyzes elevator pitches and generates structured feedback.
- Integrated multiple Hugging Face transformers for multi-level inference like emotion recognition & grammar correction.
- Built an dynamic dashboard using **TypeScript** to visualize feedback and provide actionable insights.

INVControl | *Git, SwiftUI, Firebase*
- Built a full stack iOS App in **SwiftUI**, to help proprietors manage their inventory efficiently.
- Designed use cases, class diagram and planned the application's MVVM architecture for the first iteration.
- Utilized SwiftUI for frontend and integrated **Firebase** as headless CMS to efficiently manage data for 1000+ users.
- Worked with **Git Version Control**, incorporated customer feedbacks to refine product features.