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*

Course-work: Data-Structures & Algorithms, Database Management, Web Programming, Software Engineering, iOS Development, Distributed Software Analysis, Computer Security.

Technical Skills

Languages: Java, Python, C#
Full Stack Development: Web Development (TypeScript Spring Boot, ASP.NET), iOS (SwiftUI), PyQt
Databases & Tools: RDBMS (MySQL, BigQuery), NoSQL (MongoDB Atlas, Firebase), Git, Docker, Postman API
CI/CD & DevOps: Harness pipeline

Work Experience

PayPal — San Jose, California
Software Developer Intern — *May 2025 – August 2025*
- Developed an internal monitoring dashboard tool using **TypeScript** and **BigQuery** to help team triage failed events.
- Worked on backend services with **Java** and **Spring Boot** framework adding orchestration to handle additional PayPal fees.
- Developed a **Playwright**-based automation tool with TypeScript, reducing Integration testing time by 40%.
- Learnt Agile methodologies, and the full development cycle including PRs, code reviews, and **CI/CD** pipelines (Harness).

Nexus — Remote
Software Developer (Volunteer) — *Sept 2024 – Nov 2024*
- Developed a robust platform integrating specialized IDEs and real time collaborative tools for repository publishing.
- Designed dynamic landing pages, utilizing **TypeScript**, **CSS**, and META Open Graph tags for metadata optimization.
- Implemented backend using **Express.js** for APIs, **MySQL** for the database and **Nodemailer** for email communication.

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

Arizona State University — Tempe, Arizona
Undergraduate Academic Success Tutor — *Sept 2023 – May 2024*
- Prepared personalized learning materials on Java: DS Algo, Math: Calculus-I & Calculus-II and Science based concepts.
- Monitored 100+ coding workshops 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.

Projects

360Torrent | *Python, Ansible Playbooks*
- Built a custom P2P file-sharing system inspired by BitTorrent 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.
- Improved average file download speed by 30% compared to the baseline BitTorrent protocol.

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

INVControl | *Git, SwiftUI, Firebase* | *GitHub*
- Managed a Full Stack iOS App in **SwiftUI**, for proprietors, which can help them manage their inventory efficiently.
- Structured Use Case, Class Diagram and MVVM architecture of the application to plan the 1st iteration of the project.
- Coded SwiftUI for frontend, **Firebase** as headless CMS to efficiently manage data for 1000+ users.
- Worked on **Git Version Control**, Customer Feedbacks, Project Planning and Time Management.