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-Structure & Algorithm, Database Management, Software Engineering, Artificial Intelligence, Machine Learning, iOS Development, Service Oriented Computing, Digital Design, Compiler Design, Kernel Programming.

Technical Skills

Languages: Java, JavaScript, Python, Swift, C/C++, C#, SQL.
Full Stack Development: Web Development (React.js, JavaFX, Node.js, ASP.NET), iOS (SwiftUI, Firebase), PyQt.
Databases & Tools: RDBMS (MySQL, PostgreSQL), NoSQL (MongoDB), Git, Docker, Postman API.
Cloud Services: AWS (CloudFormation, EC2, ELB, SNS, SQS, S3, RDS, Cloud9 IDE).

Work Experience

Arizona State University — Tempe, Arizona
Undergraduate Academic Success Tutor — *Sept 2023 – May 2024*

- Prepared personalised 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.

Siemens EDA — Noida, Uttar Pradesh, India
Software Development 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%.
- Improved soft skills including Leadership, Time Management, Team Communication and Agile methodologies.

Projects

ANDBOUNDS (Capstone Project) | *Git, SwiftUI, Figma* | *App Store*

- Worked on **SwiftUI** to engineer an iOS app for customers with several foot disabilities to order personalized insoles.
- Reorganized the front-end architecture of the app on **Figma**, and integrated new features to enhance user experience (**UX**).
- Revamped the iOS application from Storyboard to SwiftUI, while addressing the redundant code and features.
- Increased proficiency in **Git Version Control**, Agile & Scrum techniques and cross-team communication and planning.

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.

ConnectSocial | *Java, Scene-Builder, JavaFX, MySQL, JDBC API* | *GitHub*

- Devised a full stack app that let users make friends, tag and post publicly and like & comment on others' posts.
- Led a team of 4 students to build the GUI using **Scene Builder**, backend using **Java**, & database using **RDBMS**(MySQL).
- Engaged in Leadership, Project Planning, Task Delegation, Team Management & Communication.

FastOrder | *ASP.NET, Web Services*

- 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 & 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%.

Honors & Certifications

8 x Dean's List: Awarded for 8 consecutive semesters for excellent performance, and maintaining a GPA of 3.96 out of 4.0.
AWS Cloud Practitioner Essentials: Completed certification from Coursera verified by AWS.
IBM DevOps and Software Engineering Professional: Currently pursing this certification from Coursera verified by IBM.