Aryan Gupta

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Education

University of Illinois Urbana-Champaign — Urbana, Illinois
Master of Computer Science in 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: RDBMS (MySQL, PostgreSQL), NoSQL (MongoDB).

Tools: AWS, Git, Docker, Postman API, Docker, Agile, Scrum.

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 the 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.

Appture Technology — Jaipur, Rajasthan, India- Online
Full Stack Software Development Intern — *May 2023 – Aug 2023*

- Devised a Full Stack JavaScript solution, for Service Providers in Auto Industry, to track the status of all services.
- Coded React.js for frontend & connected to PostgreSQL database via Node.js runtime to handle 1K+ customers.
- Engaged with Product Development Team to consolidate the Web App, achieving 80 higher customer satisfaction.

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 | *SwiftUI, Firebase* | *[GitHub]*

- Managed a Full Stack iOS App, for proprietors, that can keep a record and send updates of 100+ items in the stock.
- Structure 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 for backend & manage data of 1000+ users.

ConnectSocial | *Java, JavaFX, MySQL* | *[GitHub]*

- Devised a Full Stack app, for users, that can connect with 50+ Friends, Like & Comment on 100+ Posts and make Posts.
- Led a team of 4 students to prepare GUI using Scene Builder with 60 less time, app functionalities using Java.
- Integrated MySQL DB with JavaFX using JDBC to ensure 30 efficient data retrieval with 100 data security.

FastOrder | *ASP.NET, Web Services* | *[GitHub]*

- Deploy a Service-Oriented Web App, using ASP.NET, on Web Server that imitates an E-Commerce Site for 1K+ users.
- Execute 3+ ASPX pages, for Users & Staff, calling Web Services to Encrypt data, store cookies, update Cart and pay.
- Create 5+ WCF & RESTful Services to manipulate XML files data, eliminating the need of Database by 100%.