

# ARYAN GUPTA

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## Education

### University of Illinois Urbana-Champaign

Master of Computer Science

Urbana, Illinois

Aug 2024 – Dec 2025

### Arizona State University

Bachelor of Science in Computer Science

Tempe, Arizona

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, Swift, C/C++, C#.

**Full Stack Development:** Web Development (TypeScript, JavaFX, Express.js, ASP.NET), iOS (SwiftUI), PyQt.

**Databases & Tools:** RDBMS (MySQL, PostgreSQL), NoSQL (MongoDB, Firebase), Git, Docker, Postman API.

**Cloud Services:** AWS (CloudFormation, EC2, ELB, S3, RDS, Cloud9 IDE).

## Work Experience

### Arizona State University

Undergraduate Academic Success Tutor

Tempe, Arizona

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.

### Siemens EDA

Software Developer Engineer Intern

Uttar Pradesh, India

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.

### Nexus

Software Developer (Part-Time)

Remote

Sept 2024 – Current

- 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.

## 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%.