

Sneha Dhanekula

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Education

Arizona State University, Ira A. Fulton Schools of Engineering | Tempe, AZ

Expected Graduation May 2025

Master of Science, Computer Science

Bachelor of Science, Computer Science

May 2024

New American University Scholarship (\$62,000) and Recipient of Dean's list Academic Achievement awards

GPA 3.74

Programming-Languages: Python, Swift, React, C/C++, Java. **Web Technologies:** HTML, Firebase, **Database Systems:** SQL, Azure
Operating Systems: Windows, Unix/Linux, Mac O/S, Android. **Tools:** MATLAB, XCode, Eclipse, Visual Studio

Professional Experience

Channel Soft Inc (Software Engineer Intern)

May 2024 – August 2024

- Spearheaded full-stack development of features using Python and SQL, resolving 15+ critical bugs to boost stability by 20% and elevate satisfaction for 1,000+ users.
- Engineered a 15% reduction in load times through SQL query optimization and caching strategies, setting a performance benchmark adopted for future releases.
- Collaborated with QA teams to streamline Agile testing workflows, accelerating feature deployment by 20% and aligning deliverables with business KPIs.

Chain-Link Research (Software Engineer Intern)

May 2023 – August 2023 (Remote)

- Leveraged WordPress CMS and analytics to redesign website layouts, driving a 10% user engagement increase through SEO-optimized, mobile-responsive content.
- Partnered with engineering teams to prototype web solutions during Agile sprints, reducing client-reported latency by 18% and exceeding performance targets.
- Modernized legacy codebases with HTML/CSS best practices, improving site scalability for 3+ future feature deployments.

DSL EST PVT LTD (Technical Support Intern)

May 2022 – August 2022 (AP, India)

- Diagnosed 50+ network issues using Cisco tools, slashing resolution time by 20% and improving customer satisfaction by 35%.
- Optimized router and switch configurations for 1,000+ users, reducing downtime by 30% during peak hours and enabling seamless remote operations.
- Documented troubleshooting protocols for 15+ technicians, cutting escalations by 25% and standardizing team workflows.

Academic Projects

My Portfolio Website [<https://snehadhanekula.github.io/portfolio/>]

Spring 2025

- Engineered a portfolio site with React and React Bootstrap, using CSS animations for a dynamic, interactive experience.
- Architected modular React components using state management, ensuring scalability and streamlined future updates.
- Enhanced UX with responsive design, CSS Grid/Flexbox, cross-browser compatibility, and mobile-first optimization.

YouTube Clone

Fall 2024

- Built a YouTube clone with Next.js, Express.js, TypeScript, and Docker on GCP, enabling scalable video streaming.
- Automated video compression (FFmpeg) and uploads via Firebase Functions, leveraging Cloud Storage/Pub/Sub.
- Secured data with Firestore, Firebase Hosting (CDN), and Google OAuth (Firebase Auth) for user authentication.

IOS Application Development

Fall 2023 - Spring 2024

- Engineered "See Me" (iOS journaling app) using Swift and Firebase with real-time sync and AI-driven insights.
- Slashed latency by 25% by overhauling Firebase and backend workflows, delivering seamless UI interactions.

Lexical Analyzer Development Project

Spring 2023

- Engineered a C++ lexical analyzer with regex-driven tokenization, enabling precise parsing of programming languages.
- Enhanced syntax coverage (real numbers, exponents) via multi-format support, boosting analyzer adaptability 40%.

Other Experience

Adobe (Student Ambassador)

Feb 2025 – Present

- Conduct workshops on integrating Adobe Express into software development, prototyping, and data visualization.
- Leverage Adobe tools to enhance computational creativity, UI/UX design, and technical storytelling for CS applications.

Arizona State University (Residential Assistant)

Spring 2022 – Fall 2023

- Guided over 1500+ residents and streamlined move-in/out using StarRez housing software.
- Executed 20+ community-building events, resulting in a notable 15% increase in resident engagement and satisfaction.

Arizona State University (Desk Assistant)

Fall 2024

- Managed student check-ins and check-outs while maintaining accurate records in the ASU Housing Portal.
- Administrated key distribution and access management through StarRez, ensuring secure building access for residents.