Saanvi Patel

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EDUCATION

B.S. Computer Science   August 2022- May 2026

Arizona State University, Tempe, AZ   3.90 GPA

Relevant Coursework: Data Structures and Algorithms, Introduction to Software Engineering, Principles of Programming Languages, Operating Systems, Principles of Mobile App Dev, Software QA and Testing

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Swift, Python, C, C++, C#, Bash , SQL

Software Development & Testing: SwiftUI, Firebase, Selenium, JUnit, Agile, .NET, Visual Studio, TDD

Operating Systems & Tools: Windows, macOS, Linux, Ubuntu, Git, GitHub, Jira, Slack, Scrum, Virtual Machine

PROJECTS

Contact Management System *(Independent Project, Python, SQLite, Tkinter)*   March 2024
- Created a Python-based desktop application with CRUD operations, managing 500+ contacts.
- Integrated SQLite for persistent data storage, reducing data retrieval time by 30%.
- Enhanced user experience with search, sort, and filtering functionalities, improving efficiency by 40%.

Heart Health Imaging & Monitoring System *(CSE 360, Java, JavaFX, UML Design)*   August 2024
- Developed a patient record system with UML use-case diagrams, CRC models, and class diagrams.
- Designed a JavaFX-based UI, reducing data entry errors by 25% in CT scan tracking workflow.
- Engineered secure patient data retrieval functionalities and debugged integration issues.

ASU Chirp – Social Media App *(CSE 335*, *SwiftUI, Firebase, MVVM)*   March 2025
- Built a SwiftUI app for students to share posts, events, and updates with real-time Firestore sync.
- Integrated Firebase Authentication, push notifications, and Firestore-based data handling.
- Used MVVM architecture to streamline state updates and improve UI responsiveness by 40%.

Software Testing & QA *(CSE 464 – Automated Testing & CI/CD)*   January 2025
- Designed and executed 200+ automated test cases using JUnit & Selenium, achieving 90% test coverage.
- Conducted unit, integration, and regression testing, reducing system vulnerabilities by 30%.
- Executed a CI/CD pipeline, decreasing manual testing time by 50% and accelerating deployment cycles.

WORK EXPERIENCE

Administrative Assistant, Office of Research & Sponsored Projects Administration (ORSPA) May 2023- Present
- Partnered with post-award services teams to administer $70M+ in research funds, ensuring 100% compliance with funding protocols and enhancing financial transparency.
- Developed automation scripts in Python, reducing financial record-keeping errors by 25%.
- Streamlined financial data management, reconciling 1000+ transactions across ASU Foundation, Workday, and ERA.
- Mitigated efforts to resolve financial discrepancies involving $1.8M, issuing 200+ invoices, scheduling installments, and processing 500+ checks and wires.
- Automated SQL-based financial reconciliation, reducing manual workload and improving cross-departmental coordination by 20%.

EXTRACURRICULAR & VOLUNTARY EXPERIENCE

American Association for the Advancement of Science (AAAS)   Elemental Member (2025 – 2026)
- Member of world's largest scientific society, advancing research, innovation, and science communication.

National Society of Leadership and Success (NSLS)   September 2023 – September 2024
- Recognized 3 times for leadership and academic excellence, outstanding performance and potential.

Marketing Coordinator, Connecting International Communities   May 2023- Dec 2024
- Increased event visibility by 20% and engagement through targeted social media strategy and outreach.
- Improved attendance by 25% and participation using targeted email campaigns.