Vaishnavi Bhairishetty

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EDUCATION

Bachelor of Science in Computer Science   **May 2026**
Arizona State University, Tempe.   **CGPA**: **3.51**

TECHNICAL SKILLS

Programming Languages: C++, Java, Python, HTML, CSS, Racket, XML
Tools/OS: MS Office, Git, Windows, macOS, Linux, IntelliJ, Android Studio, VS Code
Databases: MySQL, Firebase, MongoDB
Software Engineering: Object Oriented Programming, Data Structures & Algorithms, Finite State Machines, Theory of Automata, Agile Methodologies, TDD, API's

PROFESSIONAL EXPERIENCE

Arizona State University, Tempe, AZ: Office Aide   **May 2024 - Present**
- Managed front desk activities, including candidate registration, authentication, and check-in/check-out processes.
- Writing basic SQL queries to fetch, update, or manage candidate data in internal systems.
- Creating automated email templates or scripts to send confirmation emails or reminders to candidates.
- Managing the calls received, answering them with appropriate solutions, and updating the records accordingly.
- Debugged code or system issues and ensured smooth operation of automated systems.

Arizona State University, Tempe, AZ: Teaching Assistant   **August 2023 - Present**
- Working with students 1:1 or in small groups to provide personalized help and reinforcement of learning.
- Assist the teacher in delivering lessons, explaining concepts of object-oriented programming and Data Structures and Algorithms, and providing additional support to students who may need it.
- Maintain open and effective communication with both the teacher and students, ensuring that any concerns or issues are addressed promptly.

PROJECTS

Compass 360 – Discussion Management System | *Java, JavaFX, MVC Architecture, SQL, JUnit*
- Worked as a Backend developer, contributing to a comprehensive educational support system designed for ASU admins, instructors, and students.
- Created an Android mobile application using Java, XML, and Android Studio.
- Utilized Java and JavaFX for coding, following MVC patterns to organize the code effectively.
- Stored data in SQL databases, ensuring information was managed efficiently and securely with encryption for sensitive data.
- I used JUnit to check all functionalities for testing, focusing on high code coverage to ensure our application worked well under different scenarios. Used GIT for collaboration.

Wallet| *Java, XML, Firebase, API, Unit, Functional Testing, Agile Methodologies*
- Designed and developed a mobile app with advanced UI/UX using Java, XML, and Firebase for wallet management.
- The app facilitates secure transactions, allowing users to pay electricity and Wi-Fi bills, make online bookings, and integrate UPI transactions for seamless payment processing.
- Implemented API integrations to connect with various payment gateways, ensuring smooth and secure transactions.
- Conducted unit and functional testing to improve app performance and fix bugs, following Agile development practices.

Raksha|*Java, XML*
- Designed and developed an SOS alert application using Java, XML.
- The app sends alerts to emergency contacts and users within 100 miles.
- Added a feature to share the user's live location with emergency contacts.

Cybersecurity CTF's | *Linux, Python, Wireshark*
- Used various Linux commands like ls, chmod, nc, cd, cat, mkdir, touch, rm, grep, whoami, and cp to manage files and control the system.
- Applied advanced techniques such as file redirections and secure permissions with chmod and the s-bit.
- Gained root access and created custom rm and cat commands to protect flags.
- Created files and commands to do reverse binary.

Data Structure and Algorithms | *C++*
- Developed a C++ program to manage graph structures, utilizing classes for edges, vertices, and graphs to handle complex operations like Dijkstra's algorithm for shortest paths and managing adjacency matrices.
- Designed a command-line-based Rock-Paper-Scissors game that stored player results and ranked them.

ACHIEVEMENTS
- Participated in several Modern UN conferences, and as a part of it, I represented various countries.
- Volunteered for HelpAge India events.