

Aman Sharma

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Education

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| • Arizona State University at Tempe, AZ
Bachelor in Science - Software Engineering | August 2020 - May 2024
GPA 2.7/4.0 |
| • Shoreline Community College at Shoreline, WA
Associate in Science - Computer Science | August 2016 - May 2020
GPA 3.0/4.0 |

Key Course Taken

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| • Algorithm and Data Structures | • Secure Software Systems |
| • Designs and Fundamentals | • Web Application Development |
| • Database Management | • Software Architecture and Engineering |
| • Object Oriented Programming | • AutoCAD for Engineering Design |
| • Computer Organization and Assembly Language | • Digital Logic Design and Microprocessors |
| • Distributed Software system | • Operating system and System Programming |

Key Skills

- **Programming Languages:** Java, Python, C/C++, JavaScript(React), SQL, VBA, HTML, CSS, Bash, MATLAB
- **Operating Systems:** Linux, UNIX, Windows, MacOS
- **Database:** MySQL, SQLite, Access, MongoDB
- **Tools:** Visual Studio Code, Atom, Eclipse, IntelliJ, CLion, Android Studio, Git, Docker, Gradle, Excel, Node.js, JIRA, Sketch, Astah
- **Cloud Environments:** AWS, Azure, Google Cloud Platform
- **Testing and Quality Assurance:** Junit, Postman, Selenium
- **Communication Protocols:** TCP/UDP, HTTP/HTTPS, WebSockets, RESTful API's
- **Project Management & Collaboration:** Agile(Scrum, Kanban), Taiga Board, Slack, Microsoft Teams, Zoom, Asana
- **Additional Skills:** AutoCAD, Digital Logic Design, Systems Integration, Automated Testing, UI/UX Design, UML Design and Modeling

Work Experience

Fire Department, Arizona Emergency Reporting App: JavaScript, React Native, Node.js, Expo, SQLite Developed a mobile app for efficient incident reporting, enabling GPS location transmission, emergency type selection, and multimedia attachments.	August 2023 - May 2024
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Projects

E-commerce Platform: Java, Spring Boot, MySQL, React
Created an e-commerce platform where users can browse products, add items to a cart, and make secure payments. Implemented user authentication, product management, and order processing.

Chat App: Java, TCP/UDP, Multithreading
Chat application connecting to multiple servers using their addresses via TCP/UDP connections, supporting real-time messaging.

Budget Tracking App: Kotlin, Android Studio
Built an Android app for personal budget tracking. Allowed users to input expenses, categorize them, and generate reports. Synced data with local storage.

Fitness App: JavaScript, SQLite
A fitness application to capture user credentials (height and weight), calculate BMI, and dynamically suggest tailored dietary guidelines based on the results.

Educational Practice App: Java, Android Studio, SQLite
Developed an app for students allowing them to choose practice chapters and answer multiple questions for practice.

Gym Scheduling System: Java, Gradle, MySQL
Gym scheduling system to facilitate appointment bookings and manage interactions between administrators, trainers, and customers.

Games Box Online: Java, AWS, JavaFX, Networking APIs
Multi-game platform hosted on AWS. Utilized a socket server-client architecture with multithreading for real-time connectivity and efficient management of multiple game sessions.

Lego Collecting Roomba Robot: Arduino, Sensors, DC Motors
Designed and built an autonomous Lego-collecting robot powered by Arduino. Integrated sensors and motor controls to navigate and perform tasks for efficient Lego pickup and collection.

Image Enhancement Project: C/C++
An image processing application with a color shift filter to enhance visual clarity and correct colors in faded images, restoring details and vibrant colors.

VBA Ledger System for Apartment Building: VBA, Excel Macros, Access
Developed a user-friendly VBA application to manage an apartment building ledger. Supported distinct user roles (admin, analyst, staff) and facilitated interactions with tenants. Key features included streamlined tenant information management, robust security measures, and intuitive navigation.

Digital Logic Circuit Simulator: Logisim, Digital Logic
Built a digital logic circuit simulator using Logisim and logic gates like AND, OR, NOT, XOR. Gained skills in both combinational and sequential circuits, analyzed circuit behavior using timing diagrams, and constructed finite state machines.