

Aman Sharma

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Education

- **Arizona State University at Tempe, AZ** - Bachelor in Science - Software Engineering **August 2020 - May 2024**
- **Shoreline Community College at Shoreline, WA** - Associate in Science - Computer Science **August 2016 - May 2020**

Key Course Taken

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

Key Skills

- **Programming Languages:** Java, Python, C/C++, JavaScript, TypeScript, SQL, VBA, HTML, CSS, Bash, MATLAB, Dart, Fortran
- **Operating Systems:** Linux, UNIX, Windows, MacOS
- **Framework:** React Native, Flutter, Spring Boot, Django, Node.js, Express.js, Angular, Vue.js, Bootstrap, TensorFlow, PyTorch
- **Database:** MySQL, SQLite, Access, MongoDB
- **Tools:** Visual Studio Code, Atom, Eclipse, IntelliJ, CLion, Android Studio, Git, Docker, Gradle, Excel, Node.js, 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, gRPC
- **Project Management & Collaboration:** Agile, DevOps, Taiga Board, Slack, Microsoft Teams, Zoom, Asana, Trello, Jira, CI/CD
- **Additional Skills:** AutoCAD, Digital Logic Design, Systems Integration, Automated Testing, UI/UX Design, UML Design and Modeling

Work Experience

Fire Department, Arizona

August 2023 - December 2024

- Designed and developed the Emergency Reporting App using JavaScript, React Native, and Node.js, enabling real-time GPS tracking, emergency type selection, and multimedia attachments.
- Built and maintained a secure backend with SQLite, ensuring efficient data storage and seamless synchronization.
- Collaborated with stakeholders to gather requirements, prioritize features, and align the app with operational needs.
- Conducted user testing and implemented feedback-driven optimizations to enhance app performance and usability.
- Ensured data security and compliance by integrating encryption and secure communication protocols.

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, JavaFX, TCP/UDP, Multithreading, Networking APIs, Gradle

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

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, Gradle, MySQL, gRPC

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, supporting distinct user roles and facilitating tenant interactions.

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.