

# Mayank Raj

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## SKILLS

Programming	Java • Python • JavaScript
Web & Database	HTML • CSS • MySQL • MongoDB • PHP
Frameworks	Spring Boot • React
Tools	Git • Unix • IntelliJ • VSCode • Visual Paradigm • MS Office
Cloud Computing	Amazon Web Services (AWS) • Docker
Methodologies	Agile • Scrum • Kanban • DevOps • CI/CD
Soft Skills	Communication • Collaboration • Critical Thinking • Problem-solving • Adaptability • Time Management

## EDUCATION

**Advanced Diploma in Software Development and Network Engineering**, Sheridan College, GPA **3.89**

Relevant Coursework: Java OOP, Web Programming, Development fundamentals, Networking, Cloud Computing, Linux, Database Management, Software Testing and Quality Assurance, Web App Development.

## HIGHLIGHTS

- Highly skilled software engineer with expertise in Java, Python, and JavaScript, demonstrated through successful **projects** and **coursework**.
- Strong expertise in **web development** and database management, utilizing technologies such as HTML, CSS, MySQL, MongoDB, and PHP.
- Extensive experience with **Spring Boot** framework and **React**, enabling the development of robust and scalable applications.
- Proficient in utilizing Git, Unix, IntelliJ, VSCode, Visual Paradigm, and MS Office, ensuring efficient collaboration and **streamlined development** processes.
- Experienced in cloud computing, specifically Amazon Web Services (AWS) and Docker, enabling the deployment and management of **cloud-based applications**.
- Adaptable and versatile professional, well-versed in Agile, Scrum, Kanban, DevOps, and Continuous Integration/Continuous **Deployment methodologies**, ensuring efficient project execution.

## EXPERIENCES

### Executive Member

May 2023 - Present

Competitive Programming Club

- Led **200-member club**, guiding strategic growth and planning.
- Mentored 30+ students, elevating **programming skills** and **problem-solving** abilities.
- **Managed** 5 projects, ensuring on-time delivery of high-quality results.
- Cultivated an inclusive environment, fostering **communication** and collaboration.
- Represented the club at 10+ events, workshops, and **competitions** for networking.

## PROJECTS

### MMA Simulator

June 2023

Personal project ([GitHub](#))

- **Designed and developed** a highly performant Java-based MMA simulator, incorporating advanced data structures and software development principles.
- Implemented a **CLI-based application** for creating fighters, managing attributes, and simulating matches.
- Leveraged efficient **data structures** like arrays, lists, and maps for optimal storage and manipulation of fighter information.
- Implemented **delegation** patterns to separate responsibilities and improve code modularity.
- Used **MySQL** to integrate database connectivity to store and retrieve fighter data.
- Ensured reliability and accuracy through rigorous **unit testing**, ensuring optimal performance and functionality.
- Incorporated version control using **Git** for effective collaboration and code management.

### Blackjack Card Game

July 2023

Coursework ([GitHub](#))

- Led a **team** of 4 developers in designing and implementing a functional Java-based Blackjack game adhering to standard rules.
- Assigned and oversaw the development of game components: game, player, dealer, card, deck, and hand classes.
- Implemented thorough testing procedures, including **unit testing** and **integration testing**, to ensure the game's reliability and robustness.
- Applied **design principles** of encapsulation, delegation, loose coupling, and high cohesion.
- Utilized **version control** (Git), IntelliJ IDE, and Visual Paradigm for collaboration, coding, and design.
- Maintained code consistency and readability following Oracle Java **Code Conventions**.

- Successfully delivered a well-designed and functional Blackjack game, meeting **industry standards**.

## Involvement and Interests

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**Competitive Programming Club** - member

*Jan 2023 - Present*

**Interests**

Podcasts | Architecture | Movies | Psychology