ARJUN YADAV

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[LinkedIn](#) • [GitHub](#) • [Portfolio Website](#) • [LeetCode Profile](#)

SUMMARY OF SKILLS AND QUALIFICATIONS

Applications | MS Office: Word • Excel • PowerBI • PPT •Eclipse • Visual studio code • CodeBlocks • IntelliJ Idea • Jupyter Notebook

Programming | Java • C++ • Python • JavaScript • Typescript • C • HTML • CSS • Tailwind

Frameworks | React.js • Next.js • Node.js • Express.js • React-Native • jQuery • Bootstrap • PHP

Developer Tools | Git • Docker • JIRA • VS Code • Visual Studio • Heroku

Databases | MySQL • MongoDB • PostgreSQL • Redis

Practices | SDLC • Agile Development • Unit Testing • WebSocket

Cloud Technologies | AWS • Amazon EC2 • Amazon S3 • Amazon RDS • Amazon SNS

Licenses & Certifications | The Complete Node.js Developer Course (2nd Edition) Udemy, Introduction to Operating Systems NPTEL, Introduction to Computer Programming IIT-Bombay

EDUCATION

Master of Science – Applied Computer Science Co-op   **Sept 2023-April 2025**
Concordia University, Montreal, QC
- Member of the Institute for Co-operative Education
- Relevant Courses: Programming and Problem Solving • Advanced Programming Practices • Software Design Methodologies.

Bachelor of Engineering (B.E) – Information Technology.   **2015- 2019**
Army Institute of Technology, Pune, India
- Relevant Courses: Data Structure and Algorithm • DBMS • Operating Systems.
- GPA 8.55/10

WORK EXPERIENCE

UPSC - Civil Services   **May 2021 - Aug 2023**
Vajiram and Ravi, Delhi, India
Preparation Strategy:
- **Coaching:** Completed a comprehensive preparation course at **Vajiram and Ravi, Delhi, India**, one of the premier IAS coaching institutions, focusing on both Prelims and Mains.

Achievements:
- **Prelims Clearance:** Successfully cleared the UPSC Civil Services Preliminary Examination, showcasing a solid understanding of diverse subjects and effective exam strategies.

Systems Engineer   **Jul 2019 - Apr 2021**
Tata Consultancy Services, Gurugram, India
- **Project:** Test Automation for TCS Internal Systems.
- **Technologies Used:** AWS, Docker, Kubernetes, Jenkins, React.js, Node.js, REST APIs, Git, JIRA.
- **Automation Implementation:** Spearheaded the development and deployment of an automated testing framework leveraging **AWS services** for scalable test execution and data storage. Utilized **Docker** for containerization and **Jenkins** for continuous integration and delivery **(CI/CD) pipelines**.

- **Frontend Development:** Developed and maintained user interfaces for internal applications using **React.js**, ensuring a responsive and intuitive user experience. Integrated React components with backend APIs (**Node.js**) to facilitate seamless data flow and interaction.
- **Issue Resolution:** Conducted thorough root cause analysis and resolution of complex issues encountered during both pre-production and production stages, reducing downtime by **30%**.
- **Data Management:** Managed and maintained test data within **AWS S3** and **RDS**, ensuring secure and efficient access for testing purposes.
- **Script Development:** Developed and maintained test scripts using **Node.js** and **Python**, enhancing the robustness and reliability of automated tests.
- **Core Competencies:** Advanced problem-solving, **Project Management** , **REST** API development, cloud computing (AWS), test automation, frontend development with React.js, containerization with Docker, CI/CD with Jenkins.

PROJECTS

Food Order Application   Sep 2023-Oct 2023
- Developed a responsive React-based Food Ordering Platform to streamline the ordering process for users and restaurant owners.
- Conducted thorough testing and debugging to identify and resolve UI issues, ensuring a polished and error-free user interface.

Core Competencies: React

Warzone Game   Sep 2023-Nov 2023
- Developed a console-based Warzone game using Java, leveraging advanced collections and OOP concepts with libraries.
- Implemented design patterns such as State, Command, and Strategy to enhance game mechanics and maintain code clarity.
- Integrated Maven for project management and dependency resolution, streamlining builds and ensuring modularity.
- Utilized GitHub for version control, enabling collaborative development through pull requests, peer reviews, and CI/CD pipelines. Employed JUnit 5 for robust unit testing, ensuring high code quality and reliability.

Core Competencies: Java

Socket.IO — Chatting Application   Sep 2017-Dec 2017
- Developed a real-time Chatting Application using Node.js, Socket.io, and the Express framework to facilitate instant communication between users.
- Developed and integrated WebSocket communication with Socket.io for realtime messaging; improved system responsiveness by 50%, resulting in a seamless user experience and a 20% increase in active user retention.
- Utilized the Express framework to handle HTTP requests and provide a scalable server infrastructure.

Core Competencies: Node.js, Socket.IO, Express.

PROFESSIONAL ASSOCIATIONS

Member of IT Club   Aug 2017-May 2019
Army Institute of Technology, Pune, India
- Actively engaging in discussions and knowledge-sharing sessions to stay updated on the latest trends and advancements in technology.
- Assisting in the maintenance and upkeep of IT equipment and facilities within the club.