

# Akshat Nehra

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## PROFESSIONAL SUMMARY

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- 1 yr+ industry experience in developing, testing, and debugging high-quality software projects.
- Hands-on experience in building and deploying scalable serverless applications on AWS.
- Proficient in full-stack development, emphasizing clean code practices, OOP principles, and design patterns.
- Mastered problem-solving with over 600 LeetCode questions tackled.
- Participated and won WinHacks 2024 hackathon challenge, where I led the development of a MERN stack-based e-commerce website, showcasing my ability to collaborate, innovate and execute complex projects under pressure.

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Java, Python, C, C++, PHP, SQL, HTML, CSS, SASS

**Frameworks/Libraries:** React.js, React Native, Node.js, Express.js, CodeIgniter, AJAX, Redux, Tailwind CSS

**Databases:** MySQL, PostgreSQL, MongoDB, Neo4j

**Tools and Concepts:** Git, GitHub, GitLab, Docker, Heroku, Figma, Photoshop, Postman, Jira, Agile, Scrum

**Cloud Technologies:** AWS (Amazon Web Services), Serverless, AWS Lambda, API Gateway, Amazon S3, Amazon SQS, Amazon EC2, Amazon SNS, IAM, CloudWatch, ECR, ECS

**Familiar With:** Kafka, Redis, SSO, SocketIO, Angular

**Software Design Techniques:** Object Oriented Programming, Design Patterns

**Problem-Solving Skills:** Strong problem-solving abilities with experience solving over 600 LeetCode questions.

## WORK EXPERIENCE

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### Full Stack Web Developer

March 2022 – February 2023

**29Kreativ** | PHP, Codeigniter, AJAX, MySQL, PostgreSQL, GitLab, React Native, AWS

*New Delhi, India*

- Utilized HTML, CSS, SASS, Bootstrap, JavaScript, and jQuery to create pixel-perfect websites, converting designs from Adobe XD and Figma into functional web pages.
- Spearheaded the development and integration of feature-rich RESTful APIs across multiple projects with CodeIgniter, elevating functionality and user engagement.
- Shadowed senior developers in the deployment of AWS cloud services (Lambda, API Gateway, S3, EC2, and Amazon SQS), gaining hands-on experience in scalable, serverless architecture to ensure robust application deployment.
- Integrated CI/CD pipelines using GitLab CI and Docker, automating build, test, and deployment processes to improve development efficiency and application reliability.
- Crafted and periodically refined database architectures to meet evolving project needs, leading to a 30% reduction in storage requirements and a 1.5x increase in data processing speed.
- Implemented comprehensive testing strategies using Jest, ensuring high-quality code, functionality, and user experience across all platforms.
- Participated in Agile and Scrum, driving a 15% increase in project efficiency and a 10% boost in client satisfaction through regular progress reviews and responsive feedback implementation.
- Played a pivotal role in multiple projects by implementing critical bug fixes and feature enhancements, contributing to a 25% increase in overall project quality.

## PERSONAL PROJECTS

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**Online Compiler App** | *React, Node.js, Express, Docker* ([Link](#))

Sep 2023 – Oct 2023

- Implemented multi-language support for C, C++, Python, Java, and JavaScript in the Online Compiler App.
- Integrated advanced features for code management, including renaming, resetting, saving, and downloading functionalities, alongside a prewritten code library and multiple theme support for user convenience.
- Architected a scalable server infrastructure using Docker, optimized for high concurrency, that ensures secure and efficient compilation request handling, significantly boosting code execution performance.

**Multi-Database Architecture** | *MySQL, MongoDB, Neo4j, Redis Cache, Kafka* ([Link](#)) Oct 2023 – Nov 2023

- Designed robust multi-database architecture for a dynamic social media website, integrating MySQL, MongoDB, Neo4j, Redis Cache, Kafka, and more optimized for diverse data handling and performance.
- Enhanced system responsiveness and user experience by implementing an intelligent Load Balancer and leveraging Redis Cache for rapid query processing.
- Achieved high system availability and fault tolerance with synchronized database replicas; fortified security through comprehensive encryption, auditing, and proactive monitoring mechanisms (including SMS alerts).

**Social Network Simulation** | *Java* ([Link](#)) June 2023 – July 2023

- Conceptualized and implemented a Java-based application to simulate the complex dynamics of social networking platforms.
- Features: Efficient user search, autocomplete, exact match functionalities, mutual friends identification, minimum friendship paths calculation, top trending hashtags ranking, filter-based search enhancements, and friend suggestion algorithms.
- Major Data Structures Used: Trie, Graphs, Priority Queue (Max-Heap), HashMaps, HashSet, Regular Expressions.

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ACADEMIC PROJECTS

**Optimizing Athena for Cloud Data Analytics** | *Python, AWS Athena, Regex, Parquet* Sep 2023 – Dec 2023

- Optimized AWS Athena using data partitioning and Parquet format, reducing query time by 75%, data storage costs by 80%, and query costs by 99.9%.
- Unified system logs from various platforms with RegEx for analysis.
- Automated CSV to Parquet conversion with Python pandas and AWS EC2. Integrated Amazon QuickSight for log visualization and analysis, enabling reporting based on log levels and dates.

**Client-Server Application** | *C, Linux System Calls, File Handling* Nov 2023 – Dec 2023

- Developed a client-server application in C for Linux, allowing clients to seamlessly request files from the server.
- Implemented C-based auto-scaling functionality, creating a mirror server to efficiently manage server load at 50% capacity, ensuring uninterrupted client access.
- Executed file search operations based on size, date, and extension using Linux system calls and commands such as stat, find, socket, accept, optimizing handling of client requests.
- Established command syntax validation within the client process to ensure the correct format of user-entered commands before transmission to the server.

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CERTIFICATIONS

<b>DSA in Java and Web Development</b> , Pepcoding	Jan 2022 - Jul 2022
<b>The Complete 2022 Web Development Bootcamp</b> , Udemy (Dr. Angela Yu)	Nov 2021
<b>Responsive Web Design</b> , freeCodeCamp	Jan 2021
<b>Geeks Classes (DSA in C++)</b> , GeeksForGeeks ( <a href="#">Profile Link</a> )	Sep 2020 - Nov 2020

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VOLUNTEER WORK AND PARTICIPATION

<b>WinHacks 2024</b> , "Rocket: Shopping Cart App" Challenge Winner ( <a href="#">View Project</a> )	Feb 2024
<b>NextGen CTO</b> , Participation ( <a href="#">See Badge</a> )	Nov 2023
<b>Chartwell Oak Park LaSalle Retirement Residence</b> , Volunteer	Aug 2023
<b>2nd Annual Alumni and Student Pow Wow</b> , Volunteer	May 2023

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EDUCATION

<b>University of Windsor</b> <i>Master of Applied Computing</i>	Windsor, ON May 2023 – Aug 2024
<b>Lovely Professional University</b> <i>Bachelor's of Technology in Computer Science</i>	Punjab, India Aug. 2017 – July 2021