Shiv Kumar Arora

✉ shivkumarar4@gmail.com   📞 4376556857   📍 111 KITCHENER RD, Scarborough

in linkedin.com/in/shivkumararora

PROFESSIONAL SUMMARY

Driven and detail-oriented Software Engineering graduate with a 4.0 GPA, passionate about designing innovative solutions in **DevOps**, **Cloud Computing**, and **Full Stack Development**. Proficient in leveraging **AWS services** (EC2, S3, RDS, VPC), building scalable web applications with **HTML**, **CSS**, **JavaScript**, **Node.js**, and **React**, and optimizing workflows through **CI/CD pipelines** using Jenkins and AWS CodePipeline. Strong foundation in **OOP concepts**, **data structures**, and **algorithms**, complemented by hands-on experience in containerization with Docker and infrastructure monitoring using **AWS CloudWatch**. Skilled in **agile practices, Git version control**, and collaborative development, with a focus on enhancing efficiency and driving innovation in fast-paced environments.

EDUCATION

Diploma in Software Engineering Technician   01/2023 – 04/2024
Centennial College   Toronto, Canada
- **Relevant Coursework**: SQL, Software Requirements Engineering (SRS), C#, Java, Python, HTML/CSS, JavaScript, React, C++, Data Structures & Algorithms (DSA), Unix/Linux.
- Graduated with a 4.0 GPA, demonstrating strong commitment to academic excellence
- **Led a team of 4** to develop a full-stack web application using the **MERN stack (MongoDB, Express, React, Node.js)**, utilizing **Jira**, **GitHub**, and **Postman** for efficient collaboration and testing.

Secondary Education   Bareilly, Uttar Pradesh,
Vyas World School   India
Achieved **double honors (95%)** and received "**Most Disciplined**" and "Most Brilliant Student" awards in high school.

ACADEMIC PROJECTS

Scholar Homes Web Application
- Designed and developed a **full-stack web application** using **Node.js**, **Express.js**, **JavaScript**, and **MongoDB**, serving over 500 students with verified housing and furniture deals.
- Implemented secure **user authentication** with university credentials, reducing unauthorized access by 100%.
- Built dynamic **search filters** based on price and proximity, improving search accuracy and usability by 40%.
- Integrated **real-time bidding** for furniture auctions, creating an engaging marketplace with over 70% user participation.
- Enhanced user engagement with **personalized alerts**, budgeting guides, and moving tips, increasing platform retention by 25%.

Bank Application Dockerized Deployment
- Developed and deployed a **Dockerized Java-based Spring Boot application** using multi-stage builds for optimized image sizes, reducing build time by 30%.
- Designed a **Docker Compose file** to seamlessly manage application and MySQL services:
- Deployed the containerized application to **AWS ECS**, ensuring scalability and high availability for over 500 daily users.
- Demonstrated proficiency in **containerization** and **cloud-based deployment**, improving deployment efficiency by 50%.

Infrastructure Automation and Monitoring with AWS
- Automated multi-tier infrastructure setup with **AWS CloudFormation**, cutting manual work by 80%.
- Configured **VPCs**, **EC2 instances**, **ALBs**, and **RDS databases** for 99.99% uptime.
- Set up **CloudWatch Alarms** for Auto Scaling and utilized **AWS Systems Manager** to automate patching and compliance.
- Reduced storage costs by 30% with **S3 lifecycle policies** and improved governance using **AWS Config**.

TECHNICAL SKILLS SUMMARY

- **Cloud Computing:** AWS (EC2, S3, RDS, IAM, VPC, Auto-scaling)
- **CI/CD & Automation:** CodePipeline, CodeBuild, CodeDeploy, Automated Testing
- **Web Development:** HTML, CSS, JavaScript (ES6+), React.js, Node.js, Express.js
- **Version Control:** Git, GitHub, GitLab
- **Database Management:** MySQL, Amazon RDS (PostgreSQL), SQL Query Optimization
- **Infrastructure as Code (IaC):** Security Groups, EC2 Provisioning, Load Balancing
- **Monitoring & Logging:** AWS CloudWatch (Metrics, Log Monitoring)
- **Programming Languages:** C#, Java, JavaScript
- **OOP & DSA:** Key principles (Encapsulation, Inheritance) and data structures (Arrays, HashTables, Trees)
- **Frameworks:** .NET Core, .NET Framework