

# Abdul Noushad Sheikh

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Last Updated: April 21, 2024

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## SUMMARY

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- As a Lead Senior Software Engineer with 4 years of experience, I've spearheaded projects in RESTful API development utilizing Java Spring Boot, MVC, and NodeJS, demonstrating a deep understanding of software engineering principles and a strong proficiency in multiple programming languages.
- Expert in the design and deployment of scalable, high-availability systems, with a comprehensive mastery of DevOps practices including Docker, Terraform, and Kubernetes. Proven track record in architecting and automating CI/CD pipelines for efficient software delivery and operational excellence.

## EDUCATION

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### San Diego State University

*Masters in Computer Science; GPA: 3.83*

*Aug 2022 - May 2024*

### Pune University

*Bachelor of Computer Science; GPA: 3.66*

*Aug 2015 - May 2019*

## SKILLS SUMMARY

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**Programming Ecosystem:** Java, Python, JavaScript, Ubuntu and Unix Shell Scripting, SQL, MongoDB, Git.

**Web Frameworks:** Spring MVC, Spring Boot, NodeJS, ExpressJS, JQuery, Bootstrap, Selenium, JUnit, Networking (TCP/IP, DNS, NGiNX).

**CI/CD DevOps:** Docker, Terraform, Kubernetes, Ubuntu, Ansible, GitLab, Github Actions, YAML, Jira, Jenkins, Helm, AWS CloudFormation, AWS Lambda, AWS S3, AWS CodeCommit, AWS CodeBuild, AWS CodePipeline, AWS EKS, Step Functions, CloudWatch, Load Balancers.

## EXPERIENCE

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### AWM Global Advisors

San Diego, CA

*Senior Software Engineer*

*Aug 2023 - Present*

- **Leadership:** Lead a team of six developers to deliver an web-based banking solution, creating backend with Spring Boot, developing REST API, incorporating tools like JIRA, Confluence, Github, enhancing team efficiency and engagement.
- **Cloud Operations:** Achieved a 40% reduction in AWS operational costs through performance tuning of the infrastructure, terminated and scaled resources for cost-efficiency and system optimization.
- **APIs:** Optimized Python scripts for robust metric retrieval from RESTful APIs, incorporating authentication and error handling, and integrated these with AWS RDS databases, enhancing data accuracy and accessibility. Created Linux CronJob to generate financial reports using the data.
- **DevOps:** Automated builds and testing using GitHub Actions, Implemented Terraform Infrastructure as code for managable and scalable cloud infrastructure. Achieved 50% faster deployment, which enhanced system resilience and scalability.

*Tech Stack: AWS (EC2, S3, RDS, Lambda, API Gateway, CodePipeline, CodeCommit, CodeBuild), Spring Boot, Java, Python, REST APIs, Linux CronJob, Terraform, GitHub Actions, JIRA, Confluence.*

### Amdocs

*Senior Software Engineer*

*Sept 2021 - July 2022*

- **App Modernization:** Spearheaded the modernization of a on premise application to Azure cloud. Enhanced the Spring MVC application, redeveloped the user authentication, and optimized dependencies. My efforts in debugging and performance tuning, and introduction of new modules and Gradle for JAR rebuilding, boosted performance by 80% on Azure cloud.
- **Cloud DevOps:** Configured Linux machines (CentOS) using bash shell script. Used Docker, Kubernetes, and Terraform for Infrastructure as Code. Built CI pipeline for continous integration and testing. This led to 30% decrease in deployment-related bugs.

- **Leading Team:** Led a five-member developer team in analyzing a critical PnL application, created documentations, roadmap and approach to migrate the application to cloud, laying the groundwork for its transformation into a SaaS model.

*Tech Stack: Azure, Azure DevOps, Spring MVC, Java, Gradle, Linux (CentOS), Bash Scripting, Docker, Kubernetes, Terraform, CI/CD*

## Deloitte

*Software Engineer - DC Analyst*

*Jan 2020 - Sept 2021*

- **Quality Assurance:** Led the development of Python test case scenarios for unit and integration testing of AWS Lambda functions, employing Pylint for code analysis and PyTest for comprehensive automated testing within CodeBuild.
- **Automation:** Designed and implemented Selenium-based testing to automate extensive regression testing post-build. This innovation drastically reduced manual testing efforts, expedited release, and enhanced software reliability/stability.
- **Recognition:** Received the 'Deloitte Spot Award' for enhancing system efficiency and leadership.
- **Development:** Developed RESTful API services using NodeJS, to facilitating smooth integration between the online platform and external project services. Collaborated with cross-functional client teams to build the API service.
- **CI/CD:** Maintained and enhanced CI/CD pipelines for Python projects utilizing Jenkins, AWS CodeBuild, and AWS CodePipeline, significantly improving deployment efficiency.

*Tech Stack: Python, AWS Lambda, Pylint, PyTest, AWS CodeBuild, Selenium, NodeJS, RESTful API, Jenkins, AWS CodePipeline.*

## PROJECTS

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### SSH Parallel Login

- Developed a robust Linux shell script to streamline software installation processes across multiple network machines concurrently, significantly reducing manual effort and installation time.
- Implemented comprehensive error handling mechanisms within the script to gracefully manage potential issues and connection failures, ensuring reliable and uninterrupted installations.
- Utilized SSH protocol and shell scripting to securely automate remote installations, enhancing efficiency and scalability of software deployment processes.

### Serverless Quiz Game

- Architected and deployed a highly engaging, cross-platform multiplayer quiz game leveraging serverless computing with AWS Lambda, ensuring scalability and cost-efficiency.
- Designed and implemented game logic using Node.js and integrated with AWS services such as API Gateway, DynamoDB, and S3 for seamless game functionality and data persistence.

### Websites:

- Personal: [www.dev0.us](http://www.dev0.us)
- JSON Share API: [2minutejson.com](http://2minutejson.com)
- DevOps Blog: [sdsudevops.medium.com](https://sdsudevops.medium.com)