

# Shardul Deshmukh

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## EDUCATION

Northeastern University, Boston, MA	GPA: 3.6/4.0
Master of Science in Information Systems	Expected May 2024
Coursework: Web Development, Cloud Computing, Data Science Tools and Methods, Business Analytics and Information Engineering	
Gandhi Institute of Technology and Management, Hyderabad, India	GPA: 8.0/10.0
Bachelor Of Technology in Computer Science	Jul 2017 – Jun 2021
Coursework: Object-oriented programming, Data Structures and Algorithms, Database Management, Computer Engineering	

## SKILLS

Languages:	Java, JavaScript, Python, SQL, HTML, YAML, Bash
Cloud:	AWS (Amazon Web Services), Microsoft Azure, GCP, AWS SDK
DevOps:	Linux, Terraform, Ansible, CI/CD, GitHub Actions, Docker, Kubernetes, Jenkins, Git, Shell Scripting
Database:	MySQL, Postgres, NoSQL, MongoDB, DynamoDB, S3
Frameworks:	RESTful API, Express.js, Spring Boot, Django, Bootstrap, jQuery, MVC
Web Technologies:	React, Nodejs, DOM, Redux, Microservices, Maven, Spring, Ajax, Flask

## EXPERIENCE

Alnylam Pharmaceuticals, Boston, MA	Jan 2024 – Aug 2024
AWS Cloud Co-op	
<ul style="list-style-type: none"><li>Automated AWS resource tagging using <b>Lambda Functions</b> and <b>Python</b> increasing efficiency in infrastructure management</li><li>Designed <b>CI/CD</b> pipelines using <b>Docker</b> and <b>AWS code pipelines</b> to boost deployment frequency, release quality, and collaboration</li><li>Implemented a <b>CDN</b> setup for <b>optimized content delivery</b> and <b>reduced latency</b> for global users using <b>AWS CloudFront</b> and <b>Lambda</b></li><li>Researched ways to develop a comprehensive <b>Configuration Management Database (CMDB)</b> using <b>AWS Config</b>, enabling streamlined asset tracking, configuration compliance, and enhanced visibility across a multi-account AWS environment.</li></ul>	
Hexaware Technologies, Hyderabad, India	Aug 2021 – Aug 2022
Associate Software Engineer	
<ul style="list-style-type: none"><li>Established a demand based dynamically scaling <b>AWS</b> infrastructure using <b>Terraform</b> and <b>Ansible</b> to deploy software applications</li><li>Optimized <b>REST APIs</b> using caching mechanisms in <b>Node.js</b> and <b>Express</b>, reducing average <b>API</b> response time by 60 milliseconds</li><li>Leveraged <b>Node.js</b> and <b>Express</b> to divide the monolithic application into <b>microservices</b>, each representing a distinct business domain</li><li>Implemented <b>CI/CD</b> pipelines on <b>GitHub Actions</b> obtaining deployment and test automation, improving release efficiency by 65%</li></ul>	
SignalX, India	Jun 2019 – Aug 2019
Software Engineer Intern	
<ul style="list-style-type: none"><li>Partnered with developers in developing an Online Education Portal using <b>Python Django</b>, improving course completion rate by 30%</li><li>Utilized <b>Django's ORM</b> to store and retrieve student data, ensuring efficient data management of over 3000 concurrent users</li><li>Embedded a real-time chat box using <b>GraphQL</b> and <b>Web Sockets</b> allowing 200 users to collaborate in real time</li></ul>	

## ACADEMIC PROJECTS

CLOUD OPS – Terraform, AWS, Nodejs, Express, React, MySQL	Jan 2023 – Apr 2023
<ul style="list-style-type: none"><li>Engineered a demand based dynamically scaling <b>AWS Infrastructure</b> using <b>Load Balancer</b>, <b>Auto Scaling ec2</b> and <b>Cloud Watch</b>.</li><li>Constructed web application using <b>React</b> components including functional components, state management, context API, and JSX syntax.</li><li>Implemented and managed <b>data versioning</b> for <b>S3 objects</b>, ensuring <b>data recoverability</b> and tracking changes.</li><li>Set up <b>CloudWatch alarms</b> for <b>S3</b> and <b>ec2 events</b> ensuring monitoring for scalability and notifications.</li><li>Improved web application accessibility by configuring <b>Amazon Route 53</b> with <b>custom name servers</b> and <b>DNS</b> services.</li><li>Implemented <b>CI/CD</b> pipelines on <b>GitHub Actions</b> obtaining deployment and test automation, improving release efficiency by 65%.</li></ul>	
DOC CONNECT – Node.js, Express.js, React, Redux, MongoDB, Ant Design, HTML5, CSS3	Sep 2022 – Dec 2022
<ul style="list-style-type: none"><li>Developed a <b>web application</b> to connect doctors and patients, resulting in 1000+ successful appointment bookings</li><li>Built robust server-side architecture and <b>REST API's</b> on <b>Node.js</b> and <b>Express</b>, resulting in 50 millisecond average response time</li><li>Orchestrated <b>cross-region replication</b> of <b>S3 buckets</b> to enhance <b>data redundancy</b> and <b>disaster recovery</b> capabilities</li><li>Devised a reliable payment gateway by integrating <b>Stripe API</b>, enabling secure payments, and handling 4000+ sales transactions daily</li></ul>	
CHESS on JavaFX	Jan 2023 – Apr 2023
<ul style="list-style-type: none"><li>Applied <b>Java OOD</b> programming principles, including <b>inheritance</b> and <b>polymorphism</b>, to build a robust digital chess game</li><li>Utilized <b>JavaFX</b> for sophisticated UI development, ensuring an interactive user experience while adhering to modern design standards</li><li>Integrated advanced <b>Java</b> concepts like <b>exception handling</b> and <b>data collections</b> to manage game states and enable dynamic gameplay</li><li>Orchestrated thorough <b>unit</b> and <b>integration</b> testing within the <b>Java</b> ecosystem to validate the functionality of the new game rule</li></ul>	

## CERTIFICATIONS

- AWS Solutions Architect – Associate (SAA-002)
- Terraform Associate (HCTAO-003)
- Microsoft Azure Fundamentals (AZ-900)
- AWS Cloud Practitioner