

Ayush Jadhav

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Portfolio — LinkedIn — GitHub

Professional Summary

Passionate and results-driven software engineer with 5 years of experience creating applications that make a meaningful impact. I enjoy building solutions that are reliable, user-friendly, and scalable, whether working on the front-end, back-end, or cloud platforms. I thrive in collaborative environments, learning new technologies, and turning complex problems into practical, efficient solutions. Curious, adaptable, and committed to delivering work that truly benefits users and aligns with business goals.

Experience

IBM

Software Developer – Cloud Platforms

July 2025 – Present

Dublin, Ireland

- Engineered exponential backoff retry mechanisms in the CloudRock network controller to stabilize network resource reconciliation across AWS and IBM Cloud environments, enhancing failure recovery while optimizing API utilization under fluctuating load conditions.
- Restored stable ingress connectivity and VPC routing in multi-cloud Kubernetes clusters by tracing packet flow disruptions, rectifying subnet/endpoint associations, and validating VPC route propagation across OpenShift-managed clusters.
- Debugged and resolved TCP/IP networking issues in Linux-based production environments by tracing packet flows, validating routing paths, fixing subnet and endpoint misconfigurations, and improving observability and operational stability through enhanced monitoring and alerting across multi-cloud Kubernetes and OpenShift clusters.

National college of Ireland

Sept 2024 – Dec 2024

Teaching Assistant

Dublin, Ireland

- Delivered end-to-end training on microservices development using Spring Boot, covering project setup, configuration files, REST API design, exception handling, Spring Security, Spring Data JPA and modular architecture. Explained core backend concepts in detail and demonstrated integration with Angular and SQL/NoSQL databases to build full-stack applications.
- Led hands-on sessions on CI/CD automation and cloud deployment, guiding students through setting up Jenkins pipelines for build and deployment. Provided practical training on deploying applications to Microsoft Azure, including environment setup, artifact management, and best practices for cloud-native deployments using services like Azure App Services, Azure DevOps, and Azure Resource Manager.

Cognizant

Dec 2020 – Dec 2023

Software Engineer

Pune, India

- Developed and optimized Java-based microservices following Spring Boot and enterprise design patterns, ensuring robustness, scalability, and ease of maintenance.
- Built and integrated RESTful Java APIs with frontend components, enhancing performance and reducing system latency by 40% through optimized backend communication.
- Migrated legacy .NET monoliths to modular Spring Boot microservices with a focus on scalability, maintainability, and adherence to best practices in software architecture.
- Automated deployments via CI/CD pipelines using Jenkins, maintained version control in Git, and incorporated SonarQube for static code analysis to ensure code quality.
- Deployed microservices to OpenShift in cloud-native environments, implementing performance monitoring via Grafana and VMware Log Insight, improving reliability and uptime.
- Worked in Agile (Scrum Kanban) teams, participating in sprint planning, backlog grooming, and retrospectives using Microsoft TFS to drive continuous improvement.
- Collaborated with infrastructure and operations teams to deploy and operate microservices in distributed systems, supporting monitoring, alerting, and CI/CD automation for production environments.

Technical Skills

- **Languages:** Java, Golang, JavaScript, TypeScript, Python
- **Frontend:** Angular, HTML5, CSS3, React.
- **Backend:** Spring Boot, GraphQL, Flask, Django, REST APIs.
- **DevOps:** Docker, Kubernetes, Jenkins, Git, GitHub, Bitbucket
- **Cloud:** AWS (EC2, Lambda, S3, CloudWatch, IAM), OpenShift
- **Testing:** JUnit, Mockito, Selenium, TDD
- **Methodologies:** Agile, Scrum, Kanban
- **Monitoring:** Grafana, LogInsight, AWS CloudWatch, Prometheus
- **Databases:** PostgreSQL, MongoDB, Firebase, MS SQL Server
- **Messaging:** Kafka, Apache ActiveMQ
- **Networking:** Subnets, routing, VPC, ingress controllers, load balancers, internet gateways, security groups

Education

National College of Ireland

Masters of Science in Cloud Computing

Jan. 2024 – Feb 2025

Dublin, Ireland

All India Shri Shivaji Memorial Society College of Engineering

Bachelor of Engineering in Computer Engineering

Aug. 2016 – June 2020

Pune, India

Projects And Research

Mental Health Analysis using Cloud-based Machine Learning Techniques (Research)

- Developed an AI-driven model using Random Forest and SVM, achieving 99% accuracy in predicting mental health risks.
- Built a scalable ML pipeline on **AWS Lambda, DynamoDB, and S3**, deployed via Flask API on Elastic Beanstalk for real-time processing.
- Identified key predictors (e.g., family history, employee sentiment), improving sentiment analysis speed by 30%.

SnapVibe: Django Application | Source Code

- Developed a social media application using Django, SQLite, HTML5, and Bootstrap 5, deployed on AWS Elastic Beanstalk with CI/CD via CodePipeline.
- Implemented static code analysis with Pylint and managed security with SonarCloud.

House Renting Management System | Source Code

- Developed a house renting management system using Django, SQLite, HTML5, and Bootstrap 5, deployed on AWS Elastic Beanstalk with CI/CD via CodePipeline.
- Implemented static code analysis with Pylint and managed security with SonarCloud.

Certifications

NPTEL Gold+Elite Certificate in Java (96%) | [View Certificate](#)

NPTEL Gold+Elite Certificate in IoT (98%) | [View Certificate](#)

NPTEL Certificate in Data Structures and Algorithms | [View Certificate](#)

Leadership / Extracurricular

Science Teacher

Camp Diaries, Pune

Feb 2020 – Feb 2021

- Collaborated with Camp Diaries, an organization that aims to enhance skills in low-income private and government schools.
- Managed a large group of students in the classroom, ensuring engagement and participation across various activities.

Awards / Achievements

- Won Developer Academy hackathon at IBM among 6 teams by developing a Python-based game, resolving pre-existing issues via GitHub, and deploying on OpenShift. Commended for collaboration, problem-solving, and technical execution.
- Completed Gold+Elite Certificate in Java with 96% and was in top 5% toppers.