AYUSH JADHAV

Dublin, Ireland

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github.com/AyushJadhav 🔗 Portfolio: AyushJadhavPortfolio

Professional Summary

With 3 years of experience in multinational corporations, I specialize in full-stack development and cloud computing. Completed MSc in Cloud Computing at the National College of Ireland (2024-25), I also work as a Lab Assistant at NCI, mentoring students and assisting in technical workshops. I am committed to delivering innovative software solutions, mentoring developers, and collaborating with stakeholders for impactful results.

VISA Status: Authorized to work full-time in Ireland under a Stamp-1G visa..

Education

National College of Ireland   Jan. 2024 – Jan 2025
Masters of Science in Cloud Computing   *Dublin, Ireland*

Modules Completed: Cloud Architectures, Cloud Platform Programming, Cloud DevOpsSec, Scalable Cloud Programming, Research in Computing, Fog and Edge Computing, Blockchain Concepts, Cloud Machine Learning, Data governance.

All India Shri Shivaji Memorial Society College of Engineering   Aug. 2016 – June 2020
Bachelor of Engineering in Computer Engineering   *Pune, India*
CGPA: 8.52/10

Technical Skills

- Java
- Python
- JavaScript
- Spring Boot
- Django
- Flask
- Angular
- Security
- JUnit
- Mockito
- Microsoft SQL Server
- MongoDB
- Firebase
- AWS
- Jenkins
- Kubernetes
- Docker
- Git
- SonarQube
- Grafana
- Loginsight
- AWS CloudWatch
- Agile

Experience

National college of Ireland   Sept 2024 – Dec 2024
Lab Assistant   *Dublin, Ireland*

- Mentored final-year students on full-stack development, cloud deployment, and security best practices.
- Conducted workshops on Java, Spring Boot, MySQL, Angular, and DevOps tools.
- Guided students on implementing CI/CD pipelines and deploying projects to cloud platforms.

Cognizant   Dec 2020 – Dec 2023
Software Engineer   *Pune, India*

- Developed and deployed microservices-based applications for UPS (United Parcel Service) using Java, Spring Boot, and OpenShift.
- Migrated legacy .NET applications to modern Spring Boot architecture, resulting in a 50% reduction in system latency and enhancing system uptime to 98.9%.
- Created customized monitoring tool for UPS using APIs of LogInsight and Grafana, optimizing system observability during peak times and reducing operational efforts.
- Designed and developed an interactive, data-driven dashboard from scratch using Angular, incorporating real-time data visualization, and dynamic filtering. Enhanced system usability and responsiveness, resulting in a 35% improvement in user engagement and a 25% reduction in load times.
- Optimized existing stored procedures and designed scalable database solutions using SQL, enhancing query execution speed by 40% and increasing transaction throughput by 30%.
- Gained hands-on experience with Java, Spring Boot, SQL, AWS, and microservices-based architectures, contributing to the development of secure and resilient cloud-based applications.

Projects

Mental Health Analysis using Cloud-based Machine Learning Techniques
- Built a predictive model to analyze the likelihood of seeking mental health treatment based on workplace factors and personal attributes using the 2014 mental health survey dataset from the tech industry.
- Used machine learning techniques including Random Forest, Gradient Boosting, SVM, KNN, and sentiment analysis to improve predictive accuracy.
- Developed the pipeline on AWS Cloud services, including data preprocessing, model training, and deployment through Elastic Beanstalk.
- Exposed real-time predictions via a Flask application and stored them in DynamoDB.
- Analyzed key predictors such as family history, workplace resources, and employee sentiment to gain insights into mental health treatment decisions.
- Evaluated model effectiveness using metrics such as accuracy, precision, recall, and F1-score.
- Findings highlighted that sentiment analysis was crucial in predicting treatment-seeking behavior, with negative sentiments strongly correlated with higher treatment-seeking likelihood.
- The insights are intended to help organizations improve mental health support strategies and reduce stigma in the workplace.

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.

Leadership / Extracurricular

Science Teacher **Feb 2020 – Feb 2021**
Camp Diaries, Pune
- 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.
- Presented and explained basic science concepts through interactive demonstrations of simple experiments.