

# AYUSH JADHAV

Dublin, Ireland

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## 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. 2023 – Jan 2024

*Masters of Science in Computer Science*

*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

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

## 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

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### 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

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### 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.