Ayush Jadhav

Dublin, Ireland

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Professional Summary

Results-driven Full-Stack and Cloud Computing Engineer with 3+ years of experience in designing, developing, and deploying scalable applications. Proficient in Java, Spring Boot, Angular, AWS, Kubernetes, and DevOps methodologies. Strong expertise in cloud architectures, CI/CD pipelines, and microservices-based solutions. Passionate about mentoring, automation, and delivering high-performance software applications.

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

- **Programming Languages**: Java, Python, JavaScript
- **Frameworks & Libraries**: Spring Boot, Django, Flask, Angular
- **Cloud & DevOps**: AWS (EC2, S3, Lambda, CloudWatch, IAM, RDS), Kubernetes, Docker, Jenkins, SonarQube
- **Databases**: Microsoft SQL Server, PostgreSQL, MongoDB, Firebase
- **Testing & Monitoring**: JUnit, Mockito, Selenium, Grafana, LogInsight, AWS CloudWatch
- **Version Control & Agile**: Git, GitHub, Bitbucket, Agile methodologies, Scrum, CI/CD Pipelines

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*

- Designed and implemented microservices-based applications for UPS (United Parcel Service) using Java, Spring Boot, and OpenShift, reducing system response time by 40%.
- Led the migration of legacy .NET applications to Spring Boot, cutting system downtime by 30% and boosting system reliability to 99.2%.
- Developed an advanced monitoring solution using LogInsight and Grafana, decreasing debugging time by 60% and improving system observability during peak hours.
- Designed and developed an interactive, data-driven dashboard using Angular, featuring real-time data visualization and dynamic filtering, leading to a 35% increase in user engagement and a 25% reduction in load times.
- Optimized SQL stored procedures, enhancing query execution speed by 45% and reducing database load by 20%, leading to improved transaction throughput.

Projects

Mental Health Analysis using Cloud-based Machine Learning Techniques
- Developed an AI-powered predictive model using **Random Forest, Logistic Regression, decision tree, Gradient Boosting, KNN, and SVM**, achieving **99% accuracy**.
- Built the ML pipeline on **AWS Lambda, DynamoDB, and S3**, automating real-time data ingestion and analysis.
- Deployed the model via **Flask API on AWS Elastic Beanstalk**, ensuring scalable cloud-based predictions.
- Improved **sentiment analysis processing speed by 30%**, leading to better mental health insights for organizations.
- Identified key predictors such as **family history, workplace resources, and employee sentiment**, enabling data-driven decision-making for mental health support strategies.
- Evaluated model performance using **accuracy, precision, recall, and F1-score** to ensure robust predictive analysis.
- Findings highlighted that **negative sentiments were strongly correlated with higher treatment-seeking likelihood**, providing actionable insights for mental health initiatives.

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%)
  Certification

NPTEL Gold+Elite Certificate in IoT (98%)

- **Certification**

NPTEL Certificate in Data Structures and Algorithms

- **Certification**

AWS Certified Solutions Architect - In progress

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.

Awards / Achievements

- Completed Gold+Elite Certificate in Java with 96% and was in top 5% toppers.