

# Amrit Kumar

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🌐 <https://github.com/Amrit27k> kaggle <https://www.kaggle.com/amritk27>

Versatile Master's student in Cloud Computing with 2 years of industry experience, seeking opportunities to research, develop, and orchestrate next-generation cloud solutions. Strong foundation in Python, AWS, and Kubernetes, with a talent for creative problem-solving and a passion for contributing to cutting-edge projects.

## EDUCATION

### MSc Cloud Computing

Newcastle University, United Kingdom

09/2023 – Present

**Relevant modules:** Cloud Computing, Machine Learning, Big Data, Advanced Java, Enterprise Middleware, Distributed Algorithm, IoT, Blockchain.

- Designed and implemented a scalable Kubernetes-based application hosting platform for monitoring web services, utilizing Python for backend development, containerization for resource optimization, and Grafana for comprehensive service visualization.
- Engineered an IoT sensor data processing system in an edge-cloud setting, using Python for backend logic, EMQX servers for MQTT message brokering, RabbitMQ for task distribution, and Docker images for seamless deployment across virtual machines, ensuring real-time data analysis and insights.
- Collaborated with a cross-functional team of international colleagues to develop a blockchain application for GDPR compliance. This application streamlines user consent management for data processing.

### Bachelor of Engineering in Computer Science

University of Pune, India

Degree with Distinction

08/2018 – 07/2022

**Relevant modules:** Data Structures and Algorithms, Object Oriented Programming, Database Management, Web Technology, and Machine Learning.

- Contributed to 3 seminars and conferences on cloud computing, including presenting my research on containerization at the National Cloud Symposium.
- Spearheaded the AI/ML & Cloud domain at the Google Developers Student Club, organizing 5 technical workshops and securing a partnership with Microsoft Azure for student cloud credits.

## SKILLS

Python (Programming Language) • C/C++ • DevOps • Kubernetes • Amazon Web Services(AWS) • SQL • MongoDB • Java • Docker • REST APIs • Git/GitHub • AngularJS • FastAPI • Postman • Jira • Google Cloud Platform

## EXPERIENCE

### Associate Developer

Stratacent Private Ltd

01/2022 – 09/2023

- Developed and deployed an ESG API using Python, AWS S3, Lambda, and DynamoDB, automating 5 credit analysis tasks and reducing processing time by 20%. Contributed to a 10-member team, ensuring code quality and adherence to best practices. Built CI/CD Pipeline using Terraform and GitHub Actions.
- Led the development and deployment of 2 of the 4 APIs delivered within 6 quarters, ensuring high performance and scalability. Received quarterly "Bright Star" awards for consistently exceeding expectations in client communication and problem-solving.
- Authored a technical whitepaper on "Big Data ETL with AWS Glue," adopted internally as the best practice for high-volume data processing.
- Collaborated closely with 3 senior developers, adopting their best practices, and significantly improving code quality and maintainability.

## **Data Analyst Intern**

*Saint Louis University*

10/2021-11/2021

- Designed and developed interactive dashboards in Tableau utilizing advanced data visualization techniques to analyze customer churn in large datasets (over 10 million records). Identified key risk factors contributing to a 15% churn rate reduction.
- Collaboratively maintained data pipelines and automated data cleansing tasks using Zoho services, improving data accuracy and reducing manual work by 20%.
- Proactively led the team in exploring new data sources and identifying hidden trends, resulting in the development of a predictive model that accurately forecasts future churn with 85% accuracy.

## **Web Development Intern**

*Axar Digital Pvt Ltd*

11/2020-02/2021

- Gained hands-on experience in front-end web development using industry-standard technologies such as Angular and ReactJS.
- Collaborated with the development team to create responsive, user-friendly interfaces and implement dynamic features to enhance the overall user experience.
- Developed the front-end and back-end for 2 websites with SQL database for the company's portfolio management.
- Utilized Git & GitHub for version control and collaborative coding. Learn and apply best practices for code branching, merging, and code reviews to contribute effectively to the development workflow.

## **PART-TIME EXPERIENCE**

### **Workshop Helper (Software Carpentry)**

*Newcastle University*

02/2024 – Present

- Assisted in the setup and breakdown of workshop materials, equipment, and tools, related to Data Science, cloud, programming, and collaboration tools.
- Provide support to workshop instructors and more than 75 participants by helping with tasks such as distributing materials and assisting with equipment setup.
- Monitor workshop activities to ensure a safe and efficient working environment, reporting any safety concerns to the supervisor.

### **Exam Invigilator**

*International House, Newcastle*

01/2024 – Present

- Detail-oriented and organized OET Exam Invigilator with a proven track record of ensuring a secure and fair testing environment.
- Setting up exam halls by laying out stationery, equipment, and exam papers according to seating plans
- Welcoming students into the exam hall and directing them to their seats.
- Ensuring a quiet and disruption-free environment for students taking exams.
- Dealing with any student queries or issues that may arise during exams.

## **LICENSES & CERTIFICATIONS**

- Microsoft Certified: Azure AI Fundamentals - Microsoft
- Jira Fundamentals Badge - Atlassian
- [PCEP-30-02] PCEP – Certified Entry-Level Python Programmer
- Generative AI Fundamentals - Databricks