

# Priyanshu Jha

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## Professional Summary

Innovative Software Engineer with 3+ years of experience in developing and deploying cloud-based applications. Proficient in AWS, Azure, Terraform, Python, and JavaScript. Skilled in designing, developing, and deploying scalable 3-Tier cloud applications using React.js, Node.js, and serverless technologies. Adept at implementing cost-effective cloud solutions in agile environments and collaborating with cross-functional teams.

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## Skills

**Programming Languages:** Python, JavaScript, Typescript

**Cloud Technologies:** AWS, Azure

**DevOps Tools:** Docker, Kubernetes, Terraform, AWS CodePipeline

**Frontend:** React.js, Next.js, HTML, CSS

**Backend:** Node.js, Flask

**Database:** MySQL, PostgreSQL, SQLite, MongoDB, DynamoDB, AWS DocumentDB

**Other:** HMRC Corporate Taxation, Microservices, Machine Learning, Deep Learning, Data Structures and Algorithms.

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## Experience

### Software Engineer

Taxd Ltd, London | December 2022 – Present

- Developed a corporate tax filing product for small and medium size businesses that automates the generation of key financial statements, including Trial Balance, Balance Sheet, and Profit & Loss, along with iXBRL-compliant reports for seamless submission to HMRC, ensuring accuracy and compliance.
- Integrated Xero API for automatic transaction fetching, enabling real-time data synchronization and intelligent transaction categorization (assets, liabilities, expenses, etc.), reducing manual effort and improving efficiency.
- Designed and implemented scalable, fault-tolerant, and secure cloud architecture on AWS with security score of 90% from AWS Security Hub.
- Developed Terraform scripts for deployment and management of cloud resources efficiently.
- Developed microservice architecture based application in Node.js and Next.js, reducing application management efforts by 50% and enhancing overall fault tolerance of the application, leading to improved system reliability.
- Deployed microservices using Docker container on AWS, achieving 100% uptime and automated patching and security updates, which improved scalability and security along with efficient cluster management.
- Integrated DevOps tools such as AWS Codepipeline, AWS Codebuild for continuous integration and deployment, reducing developer's time spent on manual processes by 90%.

- Migrated 238GB of data from MongoDB Atlas Cloud to AWS DocumentDB, reducing overall infrastructure cost by 20% and completing the upgrade with only 1 hour of downtime.
- Led the security of the application and secured it from DDoS, SQL injection and volumetric attacks in collaboration with a security firm, resulting in a 70% reduction in potential security incidents and ensuring 99.99% uptime.
- Gained familiarity with HMRC tax system by collaborating with cross-functional teams, and supported own team members by sharing knowledge and expertise, contributing to overall team's success.

## Cloud Engineer

Blazeclan Technologies Pvt Ltd | November 2020 – May 2022

- Designed, developed, and maintained cloud-based applications using AWS services such as EC2, S3, RDS, and Lambda.
  - Collaborated with clients to deliver solutions according to business requirements.
  - Developed and maintained front-end and back-end code for web application using Node.js and React.js.
  - Built and deployed microservices using Docker containers and Kubernetes for scalability and portability.
  - Managed databases including MySQL, and AWS ElasticCache for Redis.
  - Gained hands-on experience with AWS Amplify, utilizing GraphQL queries for data retrieval and manipulation.
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## Education

### M.Sc. Data Science

The University of Birmingham, Birmingham | September 2022 – September 2023

- **Relevant coursework:** Data mining and analysis, Algorithms in Data Science, Data Visualization, Programming in Python, Data Manipulation, Database Systems (SQL and NoSQL), Data Warehousing, Current Trends in Data Science.
- **Academic Project:** Introspected the topic “Effects of fuel price index on other indexes in inflation prediction”.
- **Dissertation:** Researched and implemented the topic “A Natural Language Processing Approach to Cloud Services Recommendation for Software Requirements.”

### Bachelors in Engineering in Information Technology

International Institute of Information Technology, Pune | August 2016 – June 2020

- **Relevant coursework:** Object-Oriented Programming, Database Management, Web Development, Network Security, Operating Systems, Data Structures and Algorithms, Cloud Computing.
  - **Academic Projects:** Traffic light management using object detection, specifically using the YOLO (You Only Look Once) model.
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## **Certifications**

- AWS Solutions Architect Associate (March 2021 – March 2024)
  - PECP – Entry-Level Python Programmer (March 2021)
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## **Languages**

- English – Proficient
- Hindi – Native Speaker

## **Socials**

- LinkedIn – <https://www.linkedin.com/in/priyanshu-jha-20aa8b146/>
- Github – <https://github.com/priyanshujha98>