# Ritwick Kumar

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## PROFESSIONAL SUMMARY

Recent MSc graduate in Advanced Computer Science from Dundee University with professional experience in backend development, digital solutions, and cloud technologies. Eager to contribute to real projects.

## PROFESSIONAL EXPERIENCE

**366Pi Technology**                                                                                    Bangalore, India
*Software Developer*                                                                                    Jan 2022 – Jul 2023
- Designed and implemented scalable backend systems and APIs using .NET Core.
- Automated infrastructure provisioning on Azure using Terraform, enhancing efficiency and sustainability.
- Delivered the Planters Application, enabling real-time monitoring and data management for sustainable farm practices.
- Deployed containerized applications with Docker and managed CI/CD pipelines for seamless project delivery.

## Key Projects

- ***Planters Application****:* Developed a blockchain-powered farm management platform using .NET Core and React, enabling real-time monitoring and carbon credit trading
- ***Cost Estimator****: HTML* Built a cloud-based tool for Fennex Technology using .NET Core APIs and React, streamlining financial calculations and bid evaluations.
- ***HarmonicOverture:*** Created a context-aware music app leveraging cloud services for real-time, personalized music recommendations piggybacking on Spotify engine while filtering songs using a listening pattern. (Project Requirement for completion of MSc)

## EDUCATION

**Dundee University**                                                                                    Dundee, Scotland
Master of Science, Advanced Computer Science                                                            Sep 2023 – Aug 2024
- Coursework: DevOps and Micro Services, Programming Languages for Data Engineering, Web Application Development, Agile Engineering, Computer Research Frontier & Human Computer Interaction.
- Project:  o HarmonicOverture (Context Aware Music Application): A context aware music application which adapts to weather, time of day, mood & activity and suggests songs/playlists. o MyFlix: A Netflix-inspired video streaming platform built using JavaScript, python, nginx, allowing users to watch movies (CC License) online and add them to personalized lists through Google
   OAuth login. Supported up to 10 concurrent streams, each delivering different movies. The platform was fully hosted on Azure, utilizing cloud services for scalability and performance.

**Sikkim Manipal University**                                                                                          India

Bachelor of Technology, Computer Science Engineering

- Coursework: Data Structures and Algorithms, Object Oriented Programming, Database Management System.
- Project:  o Ticket Management System: SPFx-based activity tracker to facilitate task management for all employees within the organization, allowing tracking of client and team due dates, monitoring ticket progress, and enabling user tagging for clarity and issue resolution.

## SKILLS

- *LANGUAGES: React, C#,* Python,  SQL, Java Script, Type Script, Node.js, Bash
- *WEB DEV: HTML 5 + Css3, .NET Core*
- *FRAME WORK:* ASP.NET
- *DATABASE:* MYSQL
- *TOOLS:* SQL Server Management Studio (SSMS), GitHub, ETL
- *WEB SERVICES:* Experienced in designing and implementing RESTful APIs
- *CONTAINERIZATION:* Docker
- *CI/CD TOOLS:* Azure Devops, Jenkins
- *CLOUD COMPUTING PLATFORMS:* Azure, AWS, G-Cloud
- *DEVELOPMENT METHODOLOGIES:* Agile, Scrum, BDD, TDD