Ritwick Kumar

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PROFESSIONAL SUMMARY

With over 3.5 years of experience, adept Software Engineer capable of building scalable, data-driven applications using C#/.NET Core, Python and some knowledge of cloud, AWS. I adept at Test-Driven Development (TDD), working in Agile environment to deliver high-performance solutions. I just finished my MSc in Advanced Computer Science focusing on modern software development practices..

PROFESSIONAL EXPERIENCE

366Pi Technology   Bangalore, India
Senior Software Developer (Full Stack Engineer)   Jan 2022 – Jul 2023

- Designed and deployed scalable backend systems using .NET Core and C#, with seamless integration of front-end features using React and Angular.
- Developed the *Planters Application*, a blockchain-based farm management platform enabling users to track carbon emissions and trade carbon credits. The platform tagged over 3,500 trees across 30+ farms within four months.
- Built APIs for dynamic data exchange, ensuring efficiency and security in real-time operations.
- Delivered Azure-based solutions, including a cost estimator tool, for Fennex Technology, which streamlined bidding processes and reduced manual effort.
- Worked extensively with relational (MySQL) and NoSQL (DynamoDB) databases to support scalable applications.
- Led Agile sprints, collaborating across teams to meet project goals and ensuring high-quality outcomes.

Wipro Technology   Bangalore, India
Software Developer   Sept 2020 - Dec 2021

- Assisted in front-end enhancements for the Medtronics iOS application, ensuring a seamless user experience.
- Collaborated with senior developers to integrate architectural updates and implement robust solutions.
- Participated in Agile team activities, contributing to testing and debugging efforts.

366Pi Technology   Ranchi, India
Intern/ Apprenticeship   Jan 2019 - Aug 2020

- Developed an SPFx-based activity tracker to help with 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.
- Designed and implemented "Ek Prayas," a Xamarin-based mobile app for Covid-19 volunteers, aimed at efficiently managing requests for supplies and medications for those affected by the pandemic. I had to work with tight deadlines due to the urgent nature of the Covid-19 crisis, collaborating with Jharkhand State Authorities to ensure seamless functionality of the application for ground units, added functionality to send requirement information, including location details, to administrators for supply management and tracking.

SKILLS

- *LANGUAGES: C#,* Python, C, SQL, Java Script, Type Script, Node.js
- *WEB DEV: HTML 5 + Css3, .NET Core*
- *LEADERSHIP & MENTORSHIP:* Team management, Technical Mentorship for Interns / Team
- *DATA ENGINEERING:* Data Warehousing, ETL Processes, Data Ingestion, Data Documentation
- *FRAME WORK:* ASP.NET
- *DATABASE:* MYSQL, DynamoDB
- *TOOLS:* SQL Server Management Studio (SSMS), GitHub, VMware, Servers, Nginx
- *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
- *ANALYTICS TOOLS:* PowerBI
- *MOBILE APP DEVELOPEMNT:* Kotlin, Xamarin, Android Studio
- *AI / ML Tools:* Experience with AI frameworks such as TensorFlow and Scikit-Learn

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   Aug 2015 - Jul 2020
- 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.