Deepak Mohan Singh

186 Harold's crossroad, Dublin 6W, D6W X38114

- Software Engineer | MSc (Hons) Software Design with Cloud Native Computing (2023-2024)
- 3.5 years of experience in .NET full stack development with expertise in Angular, ASP.NET Core, and SQL Server
- Experienced in designing and deploying secure, scalable B2B SaaS products and serverless solutions on Microsoft Azure and AWS

Phone: +353 892024333   **Email**: deepakmohansingh@outlook.com   **LinkedIn**: DeepakMohanSingh   **GitHub**: DeepakMohanSingh

WORK EXPERIENCE

Software Engineer (Freelance, Part-time)

Vallabha Systems Private Limited   06/2024 – Present
Athlone, Westmeath, Ireland

- Implemented a C#-based automation solution for data extraction and analysis of emails, integrating OpenAI API and Microsoft Graph API with fine-tuned GPT model, improving accuracy by over 90% of the clients' datasets.
- Designed and implemented a cloud-native architecture on AWS, leveraging Amazon Cognito for OAuth2 authorization, API Gateway, C# based Lambda functions, and S3 to enable secure authentication and scalable data processing workflows.

Software Engineer (Permanent, Full-time)

Kovai.co   12/2020 – 06/2023
Coimbatore, Tamil Nadu, India

- Built high-priority, customer-requested features using Angular, ASP.NET Core Web API, and SQL Server and Microsoft Azure, achieving 100% on-time delivery and significantly boosting customer satisfaction.
- Owned and optimized a key module in the SaaS application (Turbo360.com), enhancing performance and resiliency by over 50%, resulting in a 15% decrease in customer-supported issues, which earned positive feedback from cross-functional teams and customers.
- Implemented fine-grained user access policies for the SaaS application, supporting both direct sign-up users in the application database and Azure Active Directory authentication to maintain a secured authentication and authorization.
- Developed and deployed a serverless solution using Microsoft Azure Functions in C# to automate email notifications for customers and team members regarding license expiration, enhancing efficiency and compliance by over 30%.
- Collaborated on escalated support issues, reproducing and resolving technical problems to deliver timely fixes, improving product reliability and user satisfaction.
- Responsible for training and mentoring 3 junior engineers in a team of 10 in agile environment on best practices around coding standards, code reviews, functional and non-functional requirements, and collaborative problem solving.

Software Engineer Intern (Internship)

Kovai.co   06/2020 – 11/2020
Coimbatore, Tamil Nadu, India

- Contributed to the development of customer-requested features using Angular, ASP.NET Core Web API, and SQL Server, notably developing user-friendly features to manage Azure service bus manual message processing.
- Automated Azure Service Bus dead-letter processing to efficiently resubmit, delete or resubmit-and-delete messages based on configured policies, minimizing manual intervention and improving processing efficiency.
- Integrated email notifications and Microsoft Teams webhooks in the SaaS project, designing and implementing customized email templates and Microsoft Teams cards to enhance user communication and engagement.

EDUCATION

Master of Science (Honors) Software Design with Cloud Native Computing

Technological University of the Shannon, Athlone, Ireland   09/2023 – 09/2024

Modules: Advanced Object-Oriented Programming with Java | Applied Scripting using Python | Microservices architecture with Spring Boot | Continuous Integration/Continuous Delivery (CI/CD) | Container Design and Deployment
Result: 1.1 First Class Honors

Bachelor of Engineering (Honors) Computer Science and Engineering

Sri Eshwar College of Engineering, Coimbatore, India   06/2016 – 05/2020

Modules: Computer Programming | Programming and Data structures | Mathematics | Relational Database Management Systems | Internet Programming | Object Oriented Programming | C# and .NET Programming
Result: 1.1 First Class Honors

TECHNICAL SKILLS

C# | ASP.NET Core Web API | .NET MVC | Entity Framework Core | Microsoft SQL Server | MySQL | RESTful APIs | Angular | HTML5 | CSS3 | SCSS | Bootstrap | JavaScript | TypeScript | Core Java | Spring Boot | AWS Lambda | Amazon EC2 | Amazon S3 | Amazon Cognito | Amazon API Gateway | Azure Functions | Azure Service Bus | Azure SQL Database | Git | Jenkins | Docker | Swagger API Documentation | Visual Studio

ACHIEVEMENTS

- **Student of the Batch Award** – Recognized as the top-performing student in the Bachelor of Engineering (Honors) program.
- **Honorable Mention Award, National App Development Contest** – For innovative application development in a national-level contest.