Anku Kumar Choudhary

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Professional Experience

VeARC Technologies   Bengaluru, IN
Software Engineer III   05/2023 - Present

- **Enterprise Application Development**: Leading the development and optimization of legacy **ASP.NET Core MVC(C#)** application with a **React.js** frontend, enhancing performance, maintainability, and scalability for an enterprise-grade platform serving **70,000+ users.**
- **UI Component Library & Dashboard**: Built a scalable UI library and dynamic dashboard in **React.js**, enhancing frontend consistency and user experience with **Context API** for state management and optimized data visualization.
- **QuickBooks Online (QBO) Integration**: Integrated QuickBooks Online using **REST APIs** and **webhooks**, automating invoice creation and real-time synchronization of financial transactions, facilitating over **150K+** invoices annually.
- **Integration Adapter**: Developing **Java Spring Boot** microservice for third-party integrations, utilizing webhooks, polling, and event-driven architecture for seamless data exchange. Ensured fault tolerance and scalability through **Circuit Breaker**, **RabbitMQ**, and **Redis**.
- **OCR Service**: Integrated **Azure Cognitive Services OCR** to automate form filling, reducing manual data entry by over 30% and improving user experience by streamlining workflows.
- **Database Management & Optimization**: Proficient in **Microsoft SQL Server**, optimizing queries, **indexing**, and database **normalization** to ensure high availability and data integrity.

Zocdoc   Pune, IN
Software Engineer II   06/2022 - 05/2023

- **Insurance Filtering Tool**: Led the development of a **microservice** with a **Java Spring Boot** backend and **React.js** frontend to automate the identification of insurance plans supported by doctors, reducing manual work from **~10 hours** to a few clicks.
- **MySQL Database Structuring**: Mapped relationships in unstructured insurance plan data and created relational tables in **MySQL**, powering the filtering tool and enabling additional services to enhance platform functionality.
- **Automated Text Annotation**: Used **AWS Textract** to automate the extraction and storage of form fields from pre-appointment medical forms, reducing manual entry and enhancing the user experience with digital form filling.
- **Web Scraping**: Developed a **JavaScript**-based web scraper to extract metadata from multiple websites, gathering information on 1 million doctors in the US, generating leads, and reducing operational time by 250 hours.
- **FastAPI Chatbot:** Built a **Python**-based chatbot with FastAPI, trained on forum data using **Hugging Face** Transformers for **NLP**, enabling users to get instant answers to FAQs without manually skimming through documents, greatly enhancing user experience.

Strand Life Sciences   Bengaluru, IN
Associate Software Engineer III   06/2019 - 06/2022

- **MPNG Desktop Application**: Built the **MPNG (Mass Profiler Next Generation)** Desktop application from scratch, utilizing **C#**, **.NET**, and **WPF**, and following **MVVM architecture** to ensure modularity and maintainability.
- **Design & Architecture Excellence**: Applied **SOLID principles** and **Design Patterns** (Factory, Command, Strategy, Observer) to create a highly maintainable and scalable system, leveraging **IOC containers** (e.g., **Microsoft Prism**) for loose coupling and improved testability.
- **Advanced Data Integration**: Integrated complex statistical & machine learning models (PCA, ANOVA, Fold Change, t-test) in the application, using data visualization libraries like **Chart.js**, **OxyPlot**, and **LiveCharts** for rich data analysis and interactive visualization capabilities.
- **Java to C# Migration**: Successfully migrated **MPNG Java Spring Boot** application to **C# WPF**, understanding the existing Java code to preserve core features while transitioning to a desktop application.

Education

Indian Institute of Technology, Bombay   Mumbai, IN
Bachelor of Technology | GPA: 7.17 / 10   2015 - 2019

Skills

Languages: C#, Java, Javascript, TypeScript, Python, C++, C, Go   **Frontend**: React.js, Next.js, WPF, HTML, CSS

Databases: MySQL, PostgreSQL, DBMS, MongoDB, DynamoDB   **Cloud & DevOps**: AWS, Azure, Docker, Kubernetes

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Summary

Full-Stack Developer with 6+ years of experience in Java Spring Boot, ASP.NET Core (C#), React.js etc. Skilled in building scalable microservices, optimizing databases, and high-performance data processing. Passionate about creating efficient, maintainable, and scalable software with a strong focus on system design and problem-solving.