USA • ASHAYKARGAONKAR@GMAIL.COM • 2245759833

ASHAY KARGAONKAR
Full Stack Engineer / Software Engineer

PROFESSIONAL SUMMARY

Software Engineer with **4+ years** of experience in **backend development** using **.NET** and **AWS**. Proven ability to build scalable **REST APIs**, microservices, and **full-stack** web applications using **C#**, **React**, and **TypeScript**. Skilled in secure **authentication** mechanisms with **AWS Cognito**, responsive **front-end development** using **React/Next.js**, and database integration and optimization with **PL/SQL** and **T-SQL**. Strong grasp of secure coding practices, vulnerability mitigation, and full-stack debugging using **Postman**, **CloudWatch**, and **CI/CD** pipelines. Experienced in **Git**-based workflows, **Agile** development, and modern web standards.

EMPLOYMENT HISTORY

SOFTWARE ENGINEER   **Mar 2022 - Jun 2025**
Tata Consultancy Services – Client: United Airlines   *Chicago, IL (Hybrid)*

♦ **Led a cross-functional** onshore/offshore team through the full development lifecycle, modernizing legacy **.NET** systems, upgrading frameworks, and refactoring backend logic using **MVC**; successfully migrated **~21 million records** from **SQL** to **AWS DynamoDB** with zero data loss and deployed services on **Elastic Beanstalk** for improved scalability.
♦ Designed and developed secure, scalable **RESTful APIs** in **C#** using AWS services including **Lambda**, **Cognito**, and **Entity Framework**; optimized data access with **PL/SQL** and **T-SQL** to support high-performance backend operations.
♦ Built responsive, accessible **UI** components with **React**, **TypeScript**, and **Next.js**, implementing **server-side rendering** and dynamic routing to deliver a seamless and consistent user experience.
♦ Contributed to production-grade applications with **1.5 million+** daily users; managed **CI/CD** pipelines (**Harness**, **GitHub**, **Docker**), enforced security using **Veracode**, created **Postman** test suites, and followed **Agile** best practices with unit testing via **Moq**.

DATA ANALYST INTERN   **Jan 2021 - Mar 2021**
Instahub LLC   *Philadelphia, PA (Remote)*

♦ Analyzed **AWS RDS** sensor data using **MySQL** to identify patterns in room occupancy and device usage, uncovering insights that contributed to a **20% improvement** in electricity conservation and overall operational efficiency.
♦ Developed predictive models in **R** and **Python** to improve energy efficiency, leveraging **statistical analysis** and **data visualization (matplotlib, Tableau)** to uncover usage trends and support strategic decisions, while designing dashboards for monitoring.

FRONTEND WEB DEVELOPER   **Aug 2018 - Aug 2019**
Ezeelo Consumer Service PVT LTD   *Nagpur, India (On-Site)*

♦ Built and maintained responsive web pages using **HTML5**, **CSS3**, **JavaScript**, and **jQuery**, ensuring cross-browser compatibility and optimizing for performance.
♦ Collaborated with backend developers to **integrate RESTful APIs** and enhanced user experience using **Bootstrap** and **basic AJAX** for dynamic content loading.

PROJECTS

THINKMOVES

♦ Developed ThinkMoves, a **chess analysis platform** that helps players and coaches digitize, store, and review their games from scanned scoresheets, using custom **image classification** and analysis powered by **Azure Document Intelligence**.
♦ Enables users to add friends, share game records, and analyze gameplay through a responsive web interface; deployed using **Vercel** and **AWS App Runner** with **Lambda**, **S3**, and **DynamoDB** for backend processing and storage.
♦ **Link**: https://thinkmovesui.vercel.app/login

EDUCATION

MASTER OF SCIENCE IN COMPUTER SCIENCE   **Sep 2019 - Aug 2021**
DePaul University   *Chicago, IL*

LINKS

Portfolio: www.ashaykargaonkar.com, LinkedIn: www.linkedin.com, GitHub: github.com.