

ASHAY KARGAONKAR

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 (FULL STACK DEVELOPER)

Mar 2022 - Jun 2025

Tata Consultancy Services (TCS) – Client: United Airlines

Chicago, IL

- ◆ Modernized legacy **.NET** systems by upgrading frameworks, refactoring backend logic using **MVC** architecture, and migrating **SQL** workflows to **AWS DynamoDB** and **Elastic Beanstalk** for better scalability and performance.
- ◆ Designed and deployed scalable, secure **RESTful APIs** in **C#** using AWS services including **Lambda**, **Cognito**, and **Entity Framework**; optimized data access with **PL/SQL** and **T-SQL** for relational workloads.
- ◆ Developed responsive, accessible **UI** components using **React**, **TypeScript**, and **Next.js**; implemented **server-side rendering**, **dynamic routing**, and consistent design systems for enhanced user experience.
- ◆ Contributed to production-grade applications with thousands of daily users; maintained **CI/CD** pipelines (**Harness**, **GitHub**, **Docker**), enforced security with **Veracode**, created **Postman** test suites, and followed **Agile** and unit testing practices (**Moq**).

DATA ANALYST INTERN

Jan 2021 - Mar 2021

Instahub LLC

Remote

- ◆ Analyzed **AWS RDS** sensor data with **MySQL** to identify patterns in room and device usage, uncovering key insights for operational optimization and **electricity conservation**.
- ◆ 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.

JUNIOR FRONTEND DEVELOPER

Aug 2018 - Aug 2019

Ezeelo Consumer Service PVT LTD

Nagpur, India

- ◆ 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.

ASHAY'S PORTFOLIO

Developed a personal **portfolio** using **TypeScript**, **React**, and **WindSurf**, deployed on **Vercel**; showcases projects, technical skills, professional background, and recent work with a clean, responsive design.

EDUCATION

MASTER OF SCIENCE IN COMPUTER SCIENCE

Sep 2019 - Aug 2021

DePaul University

Chicago, IL

BACHELOR OF COMPUTER ENGINEERING

Jun 2013 - Jun 2018

Pune University

Pune, India