

DIYA KHILNANI

diyakhilnani.recruiting@gmail.com | diya-khilnani-portfolio.vercel.app | <https://github.com/diyakhil> | [linkedin.com/in/diya-khilnani/](https://www.linkedin.com/in/diya-khilnani/)

EDUCATION

Virginia Tech, Blackburg, VA

May 2024

Bachelor of Science, Computer Science

GPA 3.96

Relevant Coursework: Operating Systems, Data Structures and Algorithms, Data Visualization, Computer Architecture, Database Systems

EXPERIENCE

CoStar Group, Richmond, VA

July 2024 - Present

Software Engineer I, Associate Software Engineer

- Built a **full-stack release tracking system** with C#, Azure DevOps API, React, SQL, and Node.js, reducing code deployment time **by 60%** across **50+ repositories**. Implemented real-time monitoring and management of automated pipeline stages to streamline releases.
- Designed and implemented a reusable **integration testing** repository for **40+** ASP.NET Core MVC codebases. Leveraged Podman for database containerization and execution of integration tests.
- Built a contact management system with React.js, SQL, and C# RESTful API to process real estate inquiries, enabling **100+ researchers** to validate potential buyers more efficiently.
- Authored dynamic email templates using HTML and CSS with Zoom integration for automated **client-facing** booking notifications, and enhanced C# **background service workflows** to enable scalable template management.

CoStar Group, Richmond, VA

June 2023 - August 2023

Technology Intern

- Improved researcher productivity by implementing collaborative **tagging functionality** in CoStar's internal CRM system, enabling **500+** support agents to categorize and route customer inquiries more effectively.
- Developed a dynamic tagging interface using React and TypeScript with Jodit editor integration, supporting real-time text formatting and multi-user collaboration.
- Built automated notification system using Microsoft Graph API and Node.js, reducing team communication delays by **70-80%** and ensuring instant delivery to tagged individuals.

PROJECTS

Driver Support AI Agent (In Progress)

July 2025 - Present

- Developing an driver support **AI agent** utilizing Model Context Protocol (MCP) architecture with intelligent web search fallback for enhanced information retrieval, LangChain libraries for Large Language Model (LLM) connection, Redis for caching the context and OpenAI Whisper API for voice-to-text transcription.

TECHNICAL SKILLS

Programming Languages: TypeScript, C#, SQL, JavaScript, Java, Python, C, HTML, CSS

Frameworks & Technologies: React.js, Node.js, .NET Core, SQL Server, RESTful APIs, Amazon Web Services (AWS)

Tools: Git, Docker, Podman, Elasticsearch, Amazon SQS, Datadog, Swagger, Vim, Unix/Linux

Development Processes: Object-Oriented Programming (OOP), Agile (Scrum), CI/CD

LEADERSHIP & COMMUNITY INVOLVEMENT

CoStar Group Intern Mentor Program

Software Engineer Intern Mentor

- Mentored a technology intern on a customer support pattern analytics project, directing implementation of Elasticsearch query aggregations and the React UI that displayed them.

HackViolet Virginia Tech, Blacksburg, VA

August 2023 - May 2024

Sponsorship Director

- Led sponsorship team for a student-run hackathon addressing the gender gap in tech, securing 6+ sponsors and raising \$20,000+.