

Devanshu Khadka

540-235-2714 | khadkadevanshu@gmail.com | <https://www.linkedin.com/in/devanshukhadka/> | Chicago, IL

EDUCATION

University of Chicago

Master's in Applied Data Science

Chicago, IL

Aug. 2025 – Dec. 2026

Virginia Tech

Bachelor of Science in Computer Science,

Bachelor of Science in Computational Modeling and Data Analytics

Blacksburg, VA

Aug. 2020 – Dec. 2024

EXPERIENCE

Software Engineering Internship/ Co-op

June 2024 – December 2024

Berkley Alternative Markets Tech

Manassas, VA

- Designed and implemented **15+ Katalon test suites** for Guidewire workflows, enhancing end-to-end automation coverage across claims, checks, and litigation.
- Performed **K6 performance testing** on backend **GraphQL API** calls, supporting validation of system reliability under varied load conditions.

Undergraduate Research

August 2023 – December 2023

Virginia Tech

Blacksburg, VA

- Automated **OpenDSA** Docker deployments using **GitHub Actions** and integrated **AWS ECS/ECR** via **CloudFormation** for scalable CI/CD workflows.
- Conducted cost analysis on EC2 and data transfer; recommended **t3.large Reserved Instances**, enabling long-term AWS cost savings of up to 40%.

DevOps Intern

June 2023 – August 2023

EZOPS

Blacksburg, VA

- Developed an internal web tool to list and manage **20+ AWS EC2/RDS instances**, including real-time **start/stop toggles** for server optimization.
- Contributed to Agile sprint cycles; improved DevOps workflows using **Bitbucket** for version control and team collaboration.

Undergraduate Teaching Assistant (CS 1114)

January 2023 – May 2023

Virginia Tech

Blacksburg, VA

- Mentored **50+ students** in foundational programming, guiding them through assignments and debugging code to enhance their skills. Graded homework, quizzes, and programs.

PROJECTS

Traffic AI Crash Rate Predictor | Python, React, Next.js, TensorFlow, MongoDB, Docker

Aug 2024 – Dec 2024

- Built a full-stack web app with **role-based access**, using **TensorFlow**, **React**, **FastAPI**, **MongoDB** to predict traffic crash rates and generate dynamic reports.

AI Web Scraper | Python, Playwright, Power BI, Git

Aug 2024 – Dec 2024

- Built an automated **ETL pipeline** using **Playwright** and **Python** to scrape structured parish data across paginated, dynamic web content and visualize results in a **Power BI dashboard**.

CERTIFICATES / ACHIEVEMENTS

- AWS Certified Cloud Practitioner**
- AWS Solutions Architect – Associate**
- AWS Certified AI Practitioner**
- Microsoft Azure Data Fundamentals**
- Grand Champion – VT CMDA Data Competition**

TECHNICAL SKILLS

Languages: Python, Java, Kotlin, R, C, MATLAB, JavaScript, SQL (Postgres), HTML/CSS

Tools/Frameworks: AWS, Azure, TensorFlow, React, Node.js, Flask, FastAPI, Spring Framework, MERN Stack, JUnit, Material-UI

Software: Power BI, GitHub/GitLab, Docker, JIRA, Excel, Tableau, Figma, SageMaker, SQ Server

Libraries: pandas, NumPy, Matplotlib, TensorFlow, GraphQL, OpenAI API