

Ahyush Kaul

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EDUCATION

University of Virginia

Bachelor of Science, Computer Science
Minor in Data Science

Charlottesville, VA

May 2025

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- Honors/Activities: 2023 UVA Ideathon Winner, Dean's List, UVA SEAS Tutor, 2020 Virginia Governor's Challenge Champion in Economics and Personal Finance, Indian Student Association, UVA NSID, DSAC, Goldman Sachs Virtual Insight Series
- Relevant Coursework: Cloud Computing, Algorithmic Economics, Database Systems, Cryptography, Advanced Software Development, Foundations of Machine Learning, Artificial Intelligence, Financial Trading, Theory of Computation, Probability, Linear Algebra, Data Analytics

PROFESSIONAL EXPERIENCE

CoStar Group

Full-Stack Developer Intern

Richmond, VA

June 2023 – August 2023

- Developed a robust full-stack application by collaborating with three cross-functional teams, efficiently querying a PostgreSQL database, creating API calls to fetch data, and seamlessly passing it to the micro front-end services (MFEs).
- Created optimized C# Entity Framework queries for API POST/DELETE/GET routes on the Data Automation Platform to cut down on memory usage by 20% and enhance performance by up to 180x.
- Implemented bearer token authentication for secure downloads on 5 API routes, enhancing data confidentiality and access control by requiring valid JWT tokens for authorization.

Deloitte

Cyber Risk and Financial Advisory Discovery Intern

Arlington, VA

June 2022 – July 2022

- Worked on an M&A case to identify a company/smart industry for the acquisition target by comparing ESG reports, cyber practices, and financial statements.
- Presented solutions to United Way professionals aiding ALICE households in Chester County, PA with financial stability.

UVA School of Engineering and Applied Sciences

Tutor

Charlottesville, VA

August 2022-Present

- Helped over 50 students in mastering topics for Data Structures and Algorithms, Probability, Software Development, and Discrete Math.

UVA Link Lab - Hydroinformatics

Undergraduate Research Assistant

Charlottesville, VA

September 2023-Present

- Implemented transfer learning on an LSTM (Long Short-Term Memory) model to enhance flood prediction accuracy in Norfolk, leveraging pre-trained neural network architectures to effectively fuse elevation and water level data, resulting in more robust and accurate flood forecasts.

UVA Darden School of Business

Teaching Assistant for Coding with GPT

Charlottesville, VA

October 2023-December 2023

- Helped 40 MBA students with software development concepts such as user stories, hypothesis-driven development, and UX/UI implementation.

PROJECTS

Volatile Stocks Analysis Using LSTM

Developer

Charlottesville, VA

August 2023-October 2023

- Implemented a Long Short-Term Memory Model using 20 years of data for NVDA/COST/TSLA, with a mean square error and loss of 0.0293, to predict closing prices.

RoomFinder

Founder and Full Stack Developer

Ashburn, VA

September 2023-December 2023

- Designed and developed a user-friendly web application, using Django, aimed at enhancing UVA students' academic experiences by enabling them to locate and reserve classrooms as study spaces easily.
- Utilized UVA's Student Information System's API to paginate 90 pages and collect all current courses for a semester and the classrooms taught in.
- Implemented a reservation request system to validate user request for study spaces based on classes and other reservation request

Yahoo Finance Web-Scraper

Back-End Developer

Charlottesville, VA

September 2023

- Engineered a user-input-driven backend utilizing Selenium for automated web-scraping of Yahoo Finance to extract financial data through HTML tags, facilitating real-time financial information retrieval.
- Applied the program to successfully generate trades valued up to \$1.5 million for a \$5 million mock portfolio within 4 weeks.

SKILLS AND INTERESTS

Technical Training: C#, .NET SDK, Entity Framework, React, Java, C++, Python, Golang, R, PostgreSQL, Git, Linux, OCaml, C, HTML, CSS,

Software: Visual Studio, VSCode, pgAdmin, Sql Server Management Studio, IntelliJ, PyCharm, RStudio, CLion, Azure DevOps, GitHub

Certifications: AWS Cloud Practitioner