Ahyush Kaul

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EDUCATION

University of Illinois Urbana-Champaign — **Chicago, IL**
Master of Computer Science — *May 2026*
- Relevant Coursework: Machine Learning and Compliers, Advanced Computer Architecture, User Centered Machine Learning, Applied Machine Learning, Information Networks, Text Information Systems

University of Virginia — **Charlottesville, VA**
Bachelor of Science, Computer Science | Minor in Data Science — *May 2024*
- 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 — **Richmond, VA**
Senior Full-Stack Developer Intern — *June 2024 – August 2024*
- Designed and implemented a robust tenant matching process to handle and correlate commercial real estate data for over 20 million records globally, ensuring accuracy and efficiency in the data matching process.
- Created a user-friendly and interactive frontend application tailored for the VP of research and a team of 150 researchers, enabling seamless data interpretation and analysis for their daily tasks.

CoStar Group — **Richmond, VA**
Full-Stack Developer Intern — *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 — **Arlington, VA**
Cyber Risk and Financial Advisory Discovery Intern — *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 Darden School of Business — **Charlottesville, VA**
Teaching Assistant for Coding with GPT — *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 — **Charlottesville, VA**
Developer — *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 — **Ashburn, VA**
Founder and Full Stack Developer — *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 — **Charlottesville, VA**
Back-End Developer — *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,