Rohit Valmeekam

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Education

University of Illinois at Urbana-Champaign **Graduating May 2025**
Bachelor of Science in Statistics and Computer Science | GPA: 3.95 *Champaign, IL*
Intending to pursue a Master's degree in Computer Science - Expected Graduation Date: 2026

Technical Skills

Languages: Java, Python, C, C++, JavaScript, SQL, R
Developer Tools: Google Cloud Platform, Firebase, Databricks, Git, Docker, MySQL, PostgreSQL
Libraries/Techniques: PySpark, React.js, Node.js, Ruby on Rails, Flask, Pytorch, TensorFlow, Sklearn, Catch2

Experience

Data Science & Analytics Intern May 2024 - Aug. 2024
John Deere *Champaign, IL*
- Used **Tensorflow** to evaluate efficacy of the **Kolmogorov Arnold Neural Network** for predicting soil moisture levels gathered by **IoT sensors** and optimized the network's architecture to accurately handle radio signals
- Extended UIUC **CropWizard LLM** with **Retrieval Augmented Generation (RAG)** & **OpenAI** library to program a **GPT** for answering agricultural questions, recommending John Deere equipment, and resolving farmers' machinery issues
- Utilized **Databricks**, **PySpark**, and **SQL** to engineer and refine a high-quality production dataset for an aftermarket opportunity dashboard for dealers, revealing missed sales opportunities

Cofounder & CTO Apr. 2024 - Present
Affluent Inc. *San Francisco, CA*
- Designed, developed, and scaled an AI system to streamline sales operations, resulting in a **45% monthly growth** rate, acquisition of **30+ customers**, and **$100,000 in annual recurring revenue (ARR)** within four months of launch
- Implemented scalable, serverless backend systems with **Google Cloud Functions**, integrating **OpenAI** and **Facebook Messenger APIs** for automated AI-driven messaging, and created a robust **data caching system** using **Firebase** to improve response times by **10 seconds per message**
- Aligned the product with business objectives by increasing customer **product utilization**, creating effective **sales funnels**, and tracking **net revenue retention** to execute marketing tactics

Software Engineer Oct. 2023 - Present
Introduction to Computer Science II - CS 128 Infrastructure and Course Development Team *Champaign, IL*
- Spearheading design of a dynamic Computer Science course website using **React.js**, **Ruby on Rails**, & **Node.js**
- Developed grade report management system in **Ruby on Rails** & **PostgreSQL** that is used by **1000+ students & course staff**
- Designed comprehensive machine project assignments in **C++** by crafting assignment details and methods, developing robust test cases using the **Catch2** testing framework, and creating execution scripts in **Ruby** for seamless implementation

Data Engineer Aug. 2023 - April 2024
Illinois Risk Lab - Research Program in Risk and Actuarial Science *Champaign, IL*
- Worked under Professor Quan and collaborating with industry professionals at ***Planck*** to consolidate large datasets and implement data processing methodologies, such as data cleaning and database creation
- Led creation of robust data pipeline by connecting **MongoDB** database to data utilizing **Python Luigi** library
- Conceptualized creation of insurance tool to determine precise insurance premiums for Lessors Risk Only (LRO) coverage, hosting a **Flask-based API** to process and analyze data acquired through web-scraping and **Google Maps API** calls

Project Manager Jan. 2023 - May 2023
Introduction to Computer Science I Honors- University of Illinois Urbana-Champaign *Champaign, IL*
- Led 4 members to develop Spotify playlist generator dependent on human moods using **Machine Learning** techniques, such as **Support Vector Classifier** and **Multi-Layer Perceptron Classifier**
- Took initiative to teach team **React.js** fundamentals, front-end design, and **deep learning** techniques
- Guided daily standups and addressed team blockers through **Agile development** and **Scrum-style sprints**

Projects

CS 196 Machine Learning Model Comparison | *Python, Pandas, Matplotlib* Sept. 2022 - Dec. 2022
- Collaborated with other students to program an application that finds the optimal ML model for analyzing Google stock data during economic recession
- Used Python libraries to create **ARIMA**, **Linear Regression**, and **Prophet** models and compare their efficacies with each other using statistical analysis