Sohum J. Shah

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EDUCATION

University of Illinois Urbana-Champaign May 2025 (Exp)
Computer Science & Economics | Statistics Minor GPA: 3.85/4.00
- Relevant Coursework: Data Structures & Algorithms, Adv. Macroeconomics, Computer Systems, Linear Algebra

PROFESSIONAL EXPERIENCE

Credit Policy Data Science Intern 5/24 - 8/24
Ally Financial Remote
- Developed a Python-based machine learning model to identify 15% of high-risk accounts in a $4B loan portfolio.
- Implemented statistical algorithms improving credit risk models and aligning expectations with business strategy.
- Collaborated on data-driven decision-making, influencing policy changes through enhanced risk assessments.

Lead Data Visualization Intern 1/24 - 5/24
UIUC Research Park EnterpriseWorks Champaign, IL
- Built Tableau dashboards analyzing $1.5B in investments, enhancing insights into 300+ local startups.
- Standardized data collection processes, driving higher investor engagement with the UIUC incubator ecosystem.
- Led team in scoping, executing 4-month project, managing milestones, deliverables, and weekly updates to leadership.

Consumer Strategy Data Science Intern 5/23 - 8/23
Ally Financial Downer's Grove, IL
- Engineered SQL frameworks to analyze 250M+ data points, optimizing pricing strategies for a $46B loan portfolio.
- Identified key financial correlations that informed policy adjustments, improving consumer servicing strategies.
- Collaborated with cross-functional teams to deliver data-driven insights, enhancing strategy and decision-making.

CAMPUS INVOLVEMENT & LEADERSHIP

Project Manager 8/24 – Present
Project: Code Champaign, IL
- Leading a team of 6-8 engineers to develop the Investor Sentiment Tracker using Python, MongoDB, and React.js.
- Managing project execution, including NLP-based sentiment analysis with BERT and RoBERTa for real-time insights.
- Overseeing data aggregation, front-end design, and API integration to deliver a customizable dashboard tool.

Project Manager 8/22 – 8/24
Illinois Business Consulting Champaign, IL
- Led a team of 8 consultants on a data transformation project, conducting analysis on 750 client accounts.
- Developed and delivered upskilling courses on Salesforce, Tableau, and PowerBI to enhance team capabilities.
- Analyzed client diversity across 15 sectors, improving talent attraction strategies.

PROJECTS

Engineering Workflow Mobile App 6/23 – Present
Mobile Application (Flutter, Node.js, PostgreSQL)
- Developing IAQuick app in Flutter and Node.js, improving indoor air quality assessment efficiency by 85%.
- Leading iterative testing and optimized user experience, reducing human error by 50% across 150 client sites.
- Integrating data management via PostgreSQL, streamlining workflows and saving $450K in labor costs annually.
- Collaborated with engineers to automate manual processes, decreasing assessment time by over 80%.

Stock Trading Advisor Web App 8/23-12/23
Web Application (Python, HTML, Flask)
- Developed a stock trading web app using Python, Flask, and Polygon API for real-time financial market analysis.
- Delivered buy/sell/hold recommendations with sub-second processing, enabling informed, data-driven decisions.

SKILLS AND INTERESTS

Languages: Python, C++, Java, JavaScript, SQL, Dart, C
Frameworks & Tools: Flutter, Flask, Node.js, React.js, Tableau, PowerBI, Salesforce, Git, Docker
Databases: PostgreSQL, MongoDB, Snowflake, SQLite
Development: Agile, CI/CD, Machine Learning (BERT, RoBERTa, spaCy, NLTK), Unit Testing