

# Sohum J. Shah

sohum1094@gmail.com  
331.216.4705  
linkedin.com/in/sohum1094/  
sohum1094.github.io

## EDUCATION

**University of Illinois Urbana-Champaign**  
Computer Science & Economics | Statistics Minor

5/25 (Exp)  
GPA: 3.86/4.00

## SKILLS

Languages: Python, C++, Java, JavaScript, SQL, Dart, C, TypeScript  
Frameworks & Tools: Flutter, Flask, Node.js, React.js, Tableau, PowerBI, Salesforce, Docker, Git, Visual Studio, AWS  
Databases: PostgreSQL, MongoDB, Snowflake, SQLite  
Development: Agile, CI/CD, Machine Learning, Unit Testing, Code Review

## PROJECTS

**Investor Sentiment Analysis Dashboard** 9/24 – Present

Lead Full Stack Developer (React.js, FastAPI, MongoDB)

- Leading 11-member team to develop Investor Dashboard, coordinating frontend, backend, and database efforts.
- Implementing NLP algorithms in Python to analyze investor sentiment from investment databases, financial news.
- Developing backend using FastAPI, optimizing data processing workflows and improving efficiency by est. 40%.
- Streamlined project development using Agile methodologies, ensuring on-time delivery of key project milestones.

**Surface Reflectance Explorer** 10/24

Backend Developer (Python, Flask, AWS)

- Built a Flask-based web app to visualize and compare ground observations with Landsat SR data in real time.
- Integrated AWS SDK for seamless retrieval of Landsat data, optimizing cloud access via Python for NASA hackathon.
- Developed notification features to alert users of upcoming Landsat overpasses using Flask API.

**Engineering Workflow Mobile App** 6/23 – Present

Full stack Developer (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%.

## PROFESSIONAL EXPERIENCE

**Python Machine Learning Developer** 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.

**Data Visualization Lead** 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 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

**Technical 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.