

# Shlok Thakkar

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## EDUCATION

### University Of Illinois Urbana Champaign

Champaign, IL

Bachelor of Science in Information Science + Data Science, Minor in Computer Science

GPA : 4.0

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (MySQL), JavaScript, NodeJS, HTML/CSS, R, ReactJS

**Frameworks:** React, Node.js, Flask, WordPress, MongoDB, FullCalendar API, Nessie API,

**Developer Tools:** Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib, Streamlit, scikit-learn, TensorFlow, OpenCV, PyTorch, Streamlit

## EXPERIENCE

### Software Development Intern

June 2022 – August 2022

*MultiQOS*

*Ahmedabad, India*

- \* Developed and deployed a scalable recommendation system for a grocery retail business using **Node.js**, **Java**, and **MySQL**, leveraging customer purchase data to personalize product suggestions and enhance user engagement by 44%.
- \* Improved operational efficiency and customer retention by implementing intelligent filtering algorithms and backend integration, resulting in a more dynamic and data-driven shopping experience.

### Machine Learning Lead Dev

Jan. 2025 – Present

*Storm Drones @ UIUC*

*Champaign, IL*

- \* Developed predictive models to estimate drone battery life using machine learning techniques, improving operational forecasting.
- \* Achieved **98% accuracy**, enabling precise battery monitoring and enhancing flight reliability and safety.

### Co-founder @ Minti

Feb 2025 – Present

*Minti*

*Champaign, IL*

- \* Developed “Minti,” an AI-powered budgeting app that connects to users’ bank accounts and calendars, integrating bank APIs to analyze expenses and provide weekly, adaptive budget plans.
- \* Engineered the full-stack solution using NodeJS, React, JavaScript, Python, and OpenAI to deliver real-time financial insights and seamless calendar-based planning.

## PROJECTS

### Black-Scholes Pricer | Python, Streamlit, TailwindCSS, Docker

March 2025 – Present

- \* Designed and implemented a robust Black-Scholes options pricer in Python, accurately computing theoretical prices and key option Greeks (Delta, Gamma, Theta, Vega, and Rho) to support quantitative risk management and optimized hedging strategies.
- \* Engineered an interactive Streamlit application that visualizes sensitivity analyses for options trading, leveraging Python, NumPy, Pandas, and Matplotlib to deliver real-time quantitative insights for enhanced trading decision-making.

### Quant Apogee | Python, NumPy, SciPy, Plotly Dash, Git

Jan 2025 – Present

- \* Developed an algorithmic trading backtesting engine that implements statistical arbitrage strategies and Monte Carlo simulations to evaluate risk-adjusted performance metrics (such as Sharpe Ratio and VaR) using historical market data.
- \* Built the platform using Python with Pandas, NumPy, and SciPy for quantitative analysis, Plotly Dash for interactive visualizations, and Docker for seamless deployment and reproducibility.