Vikramaditya Pidaparthi

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EDUCATION

BS in Computer Science + Economics
Minor in Statistics
University of Illinois at Urbana-Champaign (UIUC)

August 2022- December 2025 (Expected Early Graduation)
Cumulative GPA: 3.91/4.0
UIUC James Scholar Honors Program
Dean's List in 2022-23 (Freshman) & First Sem 2023-24 (Sophomore)

- **Relevant Courses:** Financial Econometrics, Distributed Systems, Deep Learning for Computer Vision, Economic Growth, Data Structures, Statistics and Probability, Economic Statistics, Econometrics (Applied Machine Learning), Algorithms and Models of Computation, Database Systems (SQL), Computer Systems (AWS and Embedded Systems), Financial Engineering
- **Skills**: Python, C++, C, Java, SQL, Solidity, Cairo, OLS, JavaScript, Node.js, React, CSS, Blockchain Technology, Financial and Machine Learning Algorithms, Git
- **Awards and Certificates**: Top 1%: IMC Trading Prosperity Competition 2024, 3rd Place: IMC Trading Quant Sushi Exchange Competition 2024, Global Finalist: 2020 Global Teen Investment Competition, Bloomberg Market Concepts Certification

WORK EXPERIENCE

1. **Part-Time Student UX(Full-stack) Software Engineer, John Deere** — **August 2023 – Current**
   - Spearheaded Fuel React Team, implementing robust components by utilizing MUI and React.
   - Developed and deployed the Top Navigator Dropdown Header Component, fostering future scalability for the EPDM team.
   - Enhanced front-end and full-stack efficiency by crafting data grids and drawer components used in 5 different applications, with further rollout in the future.
   - Maintained and updated Deere UI framework documentation using HTML and CSS for various sub-teams in the Manufacturing Team.
   - Led the 15-person Manufacturing Team Component Library, and the development of components such as IP Address Creator Initialization using the Storybook platform and explained how components would be used in the backend/full-stack applications, using C++ or Python.
   - Currently assisting the development of a distributed systems Workflow Search Engine project, utilizing TypeScript and Rest APIs to create and implement the API Contract for seamless communication between the Server, Client, and Dashboard of Filters used by the 50+ person EPDM Team
2. **Undergraduate Research Intern, Econometrics (UIUC)** — **February 2024 - Current**
   - Processed and analyzed data efficiently to derive valuable insights on how comments affect public perspective.
   - Developed JSON databases with 5000+ specific comments for an NLP algorithm to analyze public reactions to social media comments.
   - Developed a web scraping model for extracting data from Instagram and TikTok platforms, using Python libraries and APIs.
   - Used Selenium and Chrome Driver to connect to TikTok's web scraper, and the Beautiful Soup Python Library to parse comments and likes within posts.
3. **Cybersecurity Product Management Intern, SonicWall** — **June 2023 - August 2023**
   - Conducted in-depth research for cybersecurity product launches such as Next-Gen Firewall and Zero-Trust Network Access, providing critical insights into Product Usage, Customer Satisfaction, Sales, and ROI to the product development team to implement new strategies in crucial pivot points in projects
   - Led the creation, adoption, and effective management of Pendo dashboards used by 100-200 employees, optimizing data collection, visualization, and analysis, aiding in the rollout of products used by 17,000 clients

PROJECTS

1. **Lending Hand - Blockchain Technology, Development Team Lead, UIUC** — **January 2023 – Current**
   - Developed a Micro-lending fundraising platform connected to the blockchain, a tool to allow users to borrow or bid for individual or community projects.
   - Utilized Solidity smart contracts to create a full-stack project to be deployed using TypeScript and React.
2. **Club Recruitment Platform (SQL Full-stack Project)** — **March 2024 – May 2024**
   - Created a platform to support a wider range of club recruitment facilities, making it a versatile tool for student organizations.
   - Implemented queries, triggers, and transactions to filter applicants, connect clubs with sponsors, and recommend alternatives, automating processes with stored procedures for enhanced functionality and user experience.
   - Developed multiple Next.js pages (Login, Create Account, Profile) and integrated them with Node.js back-end for seamless user interactions and efficient CRUD operations.
   - Currently in talks with 5 different clubs for potential usage.
3. **ShotChain: Web3 Expertise Platform** — **February 2024**
   - Created ShotChain, a Web3 platform where users post blockchain questions with incentivized rewards for accurate answers on Starknet, a leading Web3 platform.
   - Utilized Cairo Smart Contracts, prioritizing seamless ERC Token transfers (form of currency) for rewards, and is currently used in 2 separate applications
   - Developed the frontend using Next JS and React for seamless user interaction on the ShotChain Platform.
   - Strategically resolved disputes, utilizing Oracles (public jury on the blockchain), ensuring fair and unbiased resolution.
4. **Fridg.AI** — **March 2024**
   - Developed a Smart Fridge Companion to track 1000+ stored food and drinks, as well as notify users before expiration.
   - Integrated cameras, ML algorithms, and prompt engineering including the GPT-4-vision model for food classification and expiration estimation.
   - Designed a user-friendly app using React and TailwindCSS, featuring a horizontal slider for easy navigation and quality-of-life improvements such as filtering and confirmation pop-ups.
   - Implemented MongoDB to store data on 8 categories of food items within the fridge, including name, category, status, date added, and expiration date, with real-time updates and notifications sent to Frontend a day before food items expire.
5. **MACD (Moving Average) and RSI (Relative Strength Index) Financial Indicator Model, UIUC** — **November - December 2022**
   - Developed a tool to maximize returns by predicting the best time to buy or sell a specific stock.
   - Utilized Python model Panda and simulated a model with a combination of MACD and RSI investment indicators data. ROI of 23% in 3 months
   - Used data visualization libraries like Pandas to display trend graphs.
6. **Resume Parser and Analyzer, UIUC** — **August - December 2023**
   - Developed a tool that reads resume information and analyzes the strengths of resumes by cross-checking with key words, phrases, and important sections
   - Used Kaggle databases of over 50,000 resumes to train the model in searching for over 100 different keywords and phrases to ensure an effective resume
   - Utilized Python libraries (Pandas, NumPy, NLTK, spaCy NLP library, scikit-learn for ML) and Streamlit for full-stack tasks.
7. **ARIMA Financial Time Series Forecasting Model, UIUC** — **August - December 2022**
   - Developed ARIMA Time series model for predicting stock prices during a recession with an accuracy of 74%.
   - Used Python libraries (pandas, statsmodels, Auto Arima) to train a model on 3 months of recession data and test it on the following 3 months.
8. **Inspirit AI Project: Autonomous Car Vision Detection, Stanford AI Camp** — **June 2021 - July 2021**
   - Created a YOLO (You Only Look Once) algorithm utilizing Maximal Suppression Probability to determine overlaps in the pictures with 95% accuracy.

ACTIVITIES

1. **Financial Engineering Course**: — **January – May 2024**
   - Securities Understanding and Paper Trading using Signals and trends in the Technological Space
   - Financial Market Analysis and Fed Exchange Understanding
   - Stock Options trading and analysis (Black Scholes Experimentation)
2. **Participated in Web3 hackathons**:
   - NEARCON, Lisbon, Portugal — **October 2023**
   - **First Place**: Starknet Hacker House, **, ETHDenver**, Colorado — **February 2024**
3. **Founder of P.R.O.F.I.T** — **August 2021**
   - Launched a Financial Literacy platform based on being *Pennywise, Responsible, Optimistic, Frugal, Integrity,* and having a *Target*. I designed, authored, and delivered a 4-week curriculum on investment basics and banking models to 25+ students

ADDITIONAL

Membership: Illinois Blockchain (Development Team Lead), Assoc. for Quant Trading Exec Board, Illinois Formula Electri