AMIT MANCHELLA

manchell@purdue.edu | 317-900-2772 | 12846 Petronia Street, Carmel, IN 46032 | https://www.github.com/amitmanchella

EDUCATION

Purdue University   **West Lafayette, IN**
Master of Science in Computer Science: Concentration in Machine Learning   *May 2026*
Bachelor of Science in Computer Science: Concentration in Machine Intelligence   *May 2025*

- **GPA:** 3.82/4.00 | **Activities/Honors:** 3+1 BSMS Student **|** Dean's List (4x), Semester Honors (4x) | Minors: Mathematics
- **Relevant Coursework:** O-O Programming (Java), Programming in C, Discrete Math, Data Structures and Algorithms, Probability, Introduction to Algorithms, Computer Architecture, Linear Algebra, Multivariate Calculus, Web Information Search & Management, Data Mining and Machine Learning, Human-Computer Interaction, Systems Programming, Database Systems, Motion Planning

PROFESSIONAL EXPERIENCES

Carrier   **Indianapolis, IN**
Software Engineering Intern   *May 2024 – Aug 2024*

- Developed a full stack application that pulls up to 50 million data points from AWS, integrates data processing with Excel VBA Macros, and visualizes results using Pandas and Bokeh, while reducing the data retrieval and analysis time from 2-3 hours to fewer than 10 minutes
- Implemented embedded code updates to upgrade software for existing Carrier residential products, decreasing code latency by over 16%
- Created unit testing protocols and test cases for brand new residential products, ensuring product reliability and overall performance

Arnold Meyer Commercial Real Estate   **Indianapolis, IN**
Software Engineering Intern   *Apr 2024 – Sep 2024*

- Developed an algorithm using Selenium to scrape commercial real estate information within a 3-mile radius of any given location including data on demographics, price per square foot, and more, enabling leasing agents to focus on sales instead of spending 1-3 hours on research

Everhaven Securities   **Charlottesville, VA (Remote)**
Quantitative Trading Analyst: Head of Automated Trading Systems   *April 2024 – Present*

- Led a team of six analysts to design and develop trading algorithms specifically targeted towards markets with low-liquidity derivatives
- Utilized the Kyle and PIN model to develop algorithms to accurately differentiate between market noise and genuine market movements
- Implemented strategic automated bid/ask adjustments based on order flow, active risk profiles, and informed investor movement

Spot Inc.   **Indianapolis, IN**
Financial Analyst Intern   *May 2023 – Aug 2023*

- Customized hundreds of financial and operations reports across multiple business areas for use by department heads and/or executives:
  - Pricing analysis – worked with sales team to develop pricing strategies using internal models
- Responsible for thorough daily/weekly/monthly reporting to the company's largest client, accounting for over $40 million per year
- Developed financial projections for 3 newly opened locations with a budget of over $6 million using sales forecasting estimations
- Leveraged PowerBI and SQL to design and fully automate reports, enhancing internal reporting capabilities and information visibility

Purdue Independent Research   **West Lafayette, IN**
Researcher   *Oct 2022 – Present*

- Designed a multi-faceted portal for the Lafayette City Council, addressing homelessness intervention, affordable housing, and neighborhood revitalization, with a focus on leveraging excess funds to combat economic decline due to increasing trends of transiency
- Performed economics analysis to quantify financial benefits of interventions, driving data-driven decisions for sustainable urban growth
- Presented research at the International Society for Quality-of-Life Studies in Rotterdam, Netherlands, and Long Beach, California, as part of a competition among top international students for a publication opportunity in the Quality-of-Life Journal

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Purdue THINK (Consulting)   **West Lafayette, IN**
Product Manager Intern   *Sep 2022 – Present*
Purdue Innovates Ventures Project: Elisyan Wealth Ventures

- Led UX/UI testing and helped debug application software in Figma and Swift, ensuring seamless functionality for the first 200 beta users
- Developed a tailored go-to-market strategy to gauge current market needs and maintain a strategic advantage against Fin-Tech competitors

Purdue Investment Banking Academy (PIBA)   **West Lafayette, IN**
Analyst   *Jan 2023 – Present*

- Networked with multiple industry professionals, discussing market dynamics and emerging opportunities within the investment banking

SKILLS, INTERESTS & AWARDS

Skills: Java, C, C++, Python, JavaScript, Linux, Bash/Batch, HTML, CSS, SQL, R, SSMS, Tableau, MATLAB, Microsoft Office, Git, AWS
Interests: Chess, Hiking, Weightlifting, Basketball, UFC, Outdoor Boys (YouTube Channel), Track & Field, Brazilian Jiu-Jitsu, Poker
Awards: *Susquehanna International Group* **(**SIG**)** Quantitative Trading Discovery Day Selectee, Carmel High School Salutatorian