

MATTHEW T. WIND

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EDUCATION

Purdue University — Bachelor of Science in Computer Science

May 2026

- Purdue Honors College, 5x Dean's List, 5x Semester Honors

GPA: 3.70/4.00

EXPERIENCE

Pipeline

West Lafayette, IN

Co-Founder & Chief Technology Officer

January 2026 – Present

- Architected an AI-native field service management platform for HVAC and plumbing contractors, leveraging a data flywheel (Vertex AI fine-tuning, root cause taxonomy, RAG over manufacturer manuals) to predict diagnoses and prevent second trips.
- Led full-stack development (React, Next.js, TypeScript, Python, PostgreSQL) and closed multiple paying pilot customers at 60%+ gross margins, winning multiple startup competitions while securing distribution through the Indiana PHCC.

Capital One

Richmond, VA

Software Engineering Intern

June 2025 – August 2025

- Developed an internal enterprise-wide testing tool to automate unit, component, and live dependency testing in a single application, ensuring 100% test coverage and significantly improving the development workflow for 10,000+ developers.

Shopwave

London, UK

Software Engineering Intern

January 2025 – April 2025

- Utilized React, Next.js, TypeScript and various other tools to develop client focused reporting analytical features for Shopwave's point of sales and inventory management systems, all while adapting to a new culture and startup environment.
- Developed an AI "Where to Next" tool that queries internal and external APIs to allow customers to analyze possible areas of expansion with React, Next.js, Vercel, JavaScript, TypeScript and multiple Amazon Bedrock AI models (Claude, Titan, etc).

Federal Home Loan Bank of Chicago

Chicago, IL

Software Engineering Intern

May 2024 – August 2024

- Developed and enhanced complex FinTech applications in .NET, C# and Java with the bank's modern engineering team, gaining experience with various tools and learning how to operate under an Agile software development cycle.
- Presented detailed findings about how the bank could benefit from further AI/ML implementation to bank executives and board members, providing a detailed plan for how to plan, execute, and regulate various potential use cases.

Purdue University

West Lafayette, IN

CS 307 (Software Engineering I) Teaching Assistant

August 2024 – Present

- Advise 6+ student teams as product owner and technical mentor, guiding framework selection, database design, and architecture decisions while providing feedback on design documents, backlogs, and sprint plans to reinforce Agile principles across the full project lifecycle.

PROJECTS

EdVenture

- Developed a full-stack social media application for study abroad students using the MERN stack (MongoDB, Express.js, React, Node.js), featuring real-time group messaging, a dynamic social system, and community forums to foster a global student network.
- Implemented a secure authentication system featuring JWT-based session management, Google OAuth 2.0 integration, a password reset flow, and a university student verification system via .edu email validation to ensure a trusted and verified user community.

Figgie Genius

- Engineered a full-stack web extension bot for Jane Street's "Figgie" options trading game, developing a React and TypeScript frontend for data scraping and a Python backend with FastAPI, PostgreSQL, and AWS for real-time data processing.
- Implemented a sophisticated analytical engine using Python, Pandas, and NumPy to perform statistical analysis, calculate suit probabilities, and identify arbitrage opportunities to automate in-game trading strategy.

Explorio

- Orchestrated and guided a dynamic team in the full-stack software development life cycle to deliver a mobile and web application, designed to generate detailed itineraries for any vacation based on user preferences through Dart, Flutter, and Firebase.

LEADERSHIP & ACTIVITIES

Boiler Quant Finance Group

West Lafayette, IN

Analyst

September 2024 – Present

- Developed an original quantitative trading strategy, utilizing Python, Pandas, SciPy & NumPy to combine the Parabolic Stop & Reverse (PSAR) & Relative Strength Index (RSI) indicators, achieving up to 70% returns and a Sharpe Ratio of 2.7.

Zeta Beta Tau Fraternity — Purdue University

West Lafayette, IN

Scholarship Director & Academic Chairman

April 2023 – Present

- Organized the first ZBT *Freshman of Excellence Scholarship*, directing the process for 150+ candidates while managing a large team to ensure events ran smoothly, awarding \$3000 in scholarships and receiving Purdue's FSCL *Brother of the Year* award.

SKILLS

Java, C/C++, Python, JavaScript, C#, R, SQL, Dart, Node.js, .NET, React, Firebase, AWS, Linux/UNIX, Git, Azure, Docker