

# William Kauffman

Landenberg, PA 19350 | 302-668-0717 | wkauffma@purdue.edu | [linkedin.com/in/liam-kauffman](https://www.linkedin.com/in/liam-kauffman)

## EDUCATION

**Purdue University | Presidential Scholarship | Purdue Rising Boilermaker Award** **Expected May 2025**  
**Bachelor of Science: Computer Engineering | Minor: Mathematics, Management** **GPA: 3.90**

- Relevant Courses: Data Structures and Algorithms, Advanced C, Python for Data Science, Discrete Math, Computer Vision, Microprocessor Systems, Digital System Design, Linear Circuits I/II, O-O Programming

## SKILLS

- Languages:** C, Python, JavaScript, Java, Matlab
- Tools:** VSCode, Git, AWS, Figma, React, PyTorch, Docker, MongoDB, Vim, GDB, FPGA, Verilog

## PROFESSIONAL EXPERIENCE

**Boeing – Project Management Intern | Seattle, WA** **June 2023 – August 2023**

- Spearheaded cross-functional teams of engineers and analysts to execute on over \$750,000 of customer requests
- Familiarized with simulation executive software, I/O software, and hardware used in airplane systems
- Conducted Boeing 777 and 787 durability virtual test flights by modeling a variety of environments with Python
- Delivered capstone project outlining full-scale EV and charging station implementation at Boeing

**Nester – Software Development Intern | Wilmington, DE** **May 2022 – September 2022**

- Developed HVAC API integration for improved price and lifetime predictions of home systems
- Created housing report pipeline which helped improve UX experience for new users
- Enhanced HVAC recommendations based on location and usage, resulting in refined sustainability report

**HP Tech Ventures – Corporate VC & Business Analytics Extern** **January 2022 – April 2022**

- Profiled 40+ startup companies through research in funding, industry data, team, and business models
- Selected as top 2% of cohort to present researched start-up to HP Tech Ventures partner

## RESEARCH / COURSE PROJECTS

**Purdue University – Researcher in Prof. Shreyas Sundaram's Research Group** **December 2023 – Present**

- Conducting evaluation of GNN and MAGAT methodologies in decentralized multi-agent path planning
- Performing research in differential game theory, focusing on the strategic interactions between pursuit and evasion

**Digital Lock - ECE 27000 | Digital System Design** **October 2023 – December 2023**

- Crafted mechanism through Register Transfer Level (RTL) design techniques
- Adjusted lock dynamically based on user input, utilizing shift registers and flip-flops within SystemVerilog
- Utilized combinational logic blocks to compare bit strings of user inputs against the pre-set lock combination

## INDIVIDUAL PROJECTS

**Banking AI Agent | Purdue AI Catapult Hackathon – Sonder | Backend Developer** **March 2024**

- Constructed an agentic model by integrating Langchain for database chaining and precise query responses, displayed through real-time SQL query and procedural step visualization to the user on the frontend
- Selected as winner of Purdue Catapult's AI Hackathon out of over 30 teams

**RAG Pipeline Chatbot – Hawken | Software Developer** **January 2024**

- Created Augmented Generation (RAG) pipeline using Puppeteer for web crawling and Pinecone for vector database integration, automating the collection and enrichment of product data for a building technologies shop
- Developed and deployed a user-friendly NextJS chatbot UI, enabling single-line script integration into client websites

**Invici, Inc – Founder, Full Stack Engineer, Sales Lead | Lewes, DE** **April 2023 – September 2023**

- Created Shopify React app through rapidly iteration of features from user interviews, enabling merchants to upload invoices and generate product listings, resulting in an average weekly time saving of 8 hours
- Awarded Shurz Trailblazer \$10,000 award in Purdue Innovates Startup Expo out of over 40 startups
- Collaborated on invoice processing pipeline utilizing PyTorch based DeTr networks and OCR models

## ACTIVITIES

**Purdue AI/Machine Learning Club – Algo Trading Competition Team Leader** **August 2023 – Present**

- Recruited out of over 80 candidates to compete in hackathons, trading, and math competitions
- Lead team of over 20 students in semester long projects, seminars, and competitions

**PurdueTHINK – Consultant | Technical Project Manager** **September 2021 – September 2023**

- Led as project manager for Socrash.AI, driving user base growth by 50% through iteration on user feedback
- Consulted for Purdue Auxiliary Service, leveraging Matlab to eliminate the bottom 20% of purchasing users, yielding a project savings of \$1.5 in P-Card spending