

# Aneesh Manna

[tinyurl.com/mohit542](http://tinyurl.com/mohit542) | [linkedin.com/in/mohit542](https://linkedin.com/in/mohit542) | [github.com/MohitManna-2006](https://github.com/MohitManna-2006)

## EDUCATION

Purdue University	May 2027
BS Computer Engineering	Minor: Math & Finance
- <b>Coursework:</b> Advanced Circuits · Data Structures · System Design	
- <b>Organizations:</b> Vertically Integrated Projects · Data Mine (CAT) · Embedded Systems	

## EXPERIENCE

Caterpillar   <i>Data Science Researcher</i>	<i>Aug 2025 – Present</i>
• Improved CAT supply-chain forecast accuracy by 15% by training a decoder model	
• Reduced model latency by 10% through an ETL pipeline for demand forecasting	
• Minimized manual analyst work by 6 hours/week using an automated Power BI dashboard	
Purdue Stack   <i>Software Developer</i>	<i>Sep 2024 – Present</i>
• Architected Flask-based course-matching service, automating TA scheduling across 30 math sections	
• Designed PostgreSQL schema for TA profiles/preferences, powering assignments for 200 TAs/semester	
• Implemented CSV export pipeline for assignment reviews, reducing processing latency by 10%	
MySphere   <i>Software Developer Intern</i>	<i>Jun 2025 – Aug 2025</i>
• Implemented speech-to-text workflow using Node/Express, increasing task completion for 300 users	
• Refactored Express auth APIs with JWT middleware, raising successful sign-ins by 1,200+ sessions	
• Optimized React Native screens intended for senior citizen users, reducing taps per task by 20%	
Creative Capital   <i>Software Engineer Intern</i>	<i>Mar 2025 – Aug 2025</i>
• Automated Node + SendGrid onboarding workflows, reducing manual investor verification time by 25%	
• Deployed Supabase APIs with row-level security, reducing average query latency by 240 ms	
• Built React dashboard views for investor profiles and recommendations, used by 100+ accounts	

## PROJECTS

Backend Engineer – <i>Google Developer Group</i>	
• Architected a Chrome Extension to scan calendars for tasks and automate reminders, used by 200+ students	
• Added background sync with smart desktop alerts, reducing manual tracking time by 30%	
Firmware Engineer (BB-8 Robot) – <i>Embedded Systems Club</i>	
• Implemented C firmware for microcontroller units, boosting wireless communication range by 4 meters	
• Developed drivetrain–sensor interface for motion control, enabling 40 synchronized robot actions/min	
Python Researcher – <i>Integrated Photonics Lab</i>	
• Developed automated Python ETL pipeline for 10,000+ waveguide simulations, cutting analysis time by 18%	
• Awarded 1st place of 200 at Purdue Research Symposium for 99.7%-accurate waveguide efficiency simulations	

## SKILLS

- **Languages:** Python · TypeScript · Java · C/C++ · SQL · R
- **Frameworks:** React · Next.js · Django · Express.js · MongoDB · Flask
- **Tools:** Git · Docker · AWS/Azure · Firebase · Kubernetes · Jenkins · Vercel · PyTorch