

# Sushin Bandha

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## Summary

Purdue AI student specializing in user-centric products at the intersection of machine learning and business strategy. A proven leader who directed a 25-member team to enhance operational efficiency with Python and Salesforce, now seeking a Product Management, AI, or IT internship to build and launch innovative, AI-powered solutions.

## Education

<b>Purdue University - West Lafayette, IN</b> <i>Bachelor of Science, Artificial Intelligence</i>	<b>Aug 2023 - May 2027</b>
• <b>GPA:</b> 2.94 • <b>Coursework:</b> Computer Architecture, OOP in Java, Programming in C, Data Structures & Algorithms, Systems Programming, Data Mining & Machine Learning	

## Experience

<b>Purdue University Police Department</b> <i>PSSP Student Patroller</i>	<i>West Lafayette, IN · Sep 2025 - Present</i>
• Assess and mitigate environmental risks by identifying unauthorized access points and safety hazards, using systematic checklists and Excel logs to document findings, which improves campus safety compliance	
• Provide emergency response and crowd control during university events, coordinating with full-time officers and using real-time communication tools, which reduces incident response time and maintains safe environments for attendees	
• Conduct security operations and facility inspections across campus, performing interior sweeps and recording observations in Git-tracked reports, which ensures the physical integrity of academic and administrative assets	
<b>Purdue Athletics</b> <i>Clerical Attendant</i>	<i>West Lafayette, IN · Aug 2025 - Present</i>
• Optimized high-volume traffic flow for 10,000+ patrons during Big Ten athletic events, utilizing real-time problem-solving to reduce entry/exit congestion by 60%.	
• Manage complex logistical operations by coordinating with security, law enforcement, and facility managers, ensuring campus-wide safety and efficiency and maintaining zero safety incidents	
• Executed precision resource allocation by strategically directing vehicle placement based on lot capacity and permit-tiering, maximizing space utility for peak-attendance events.	
<b>PSEG</b> <i>Product Intern</i>	<i>Newark, NJ · Jun 2025 - Aug 2025</i>
• Acted as a product owner for Identity & Access Management (IAM), partnering with stakeholders to prioritize a backlog of 50+ bug fixes and enhancements that improved system usability.	
• Guaranteed a 99% defect-free launch by executing 300+ User Acceptance Testing (UAT) and SIT cases to validate product quality and end-to-end user workflows.	
• Developed a business case for a new IAM scalability solution, conducting market analysis and user research with Excel and PowerPoint, which secured executive approval and a roadmap for future growth	
<i>Product Intern</i>	<i>Newark, NJ · Jun 2024 - Aug 2024</i>
• Pioneered product initiative by building and presenting five Proof of Concept tools, securing executive approval for full-scale development.	
• Led cross-functional team of 25 interns to define and launch company-wide onboarding site, accelerating new hire productivity.	
• Owned end-to-end development of critical automation tool, transforming multi-day manual process into near-instant execution.	

## Projects

<b>Wine Varietals Yield Forecasting Project</b> <i>BASF x The Data Mine</i>	<b>Aug 2024 - Dec 2024</b>
• Delivered a machine learning solution that provided a 92% accurate forecast of wine sales, enabling data-driven inventory and marketing decisions for the client (BASF).	
• Translated complex business requirements into technical specifications for a time-series forecasting model, aligning the project scope with stakeholder goals.	
• Improved the efficiency of the existing analytical system by 30% by debugging and refactoring legacy code, directly enhancing the reliability of the forecasting tool.	
• Designed and deployed an automated MLOps pipeline that cut model update time from 2-3 days to ~1-2 hours, ensuring the business always had access to the most current predictions.	
<b>Personal Website</b>   <a href="#">Website</a>	<b>2024 - Present</b>
• Engineered a full-stack AI portfolio platform using Next.js 15, TypeScript, and PostgreSQL, featuring a conversational RAG chatbot with semantic search over embedded resume and project data	
• Configured production deployment on Vercel with automated CI/CD, environment variable management, and secure API key handling	
• Designed serverless contact form system with PostgreSQL persistence, IP geolocation tracking, and transactional email delivery via Resend API, capturing visitor engagement metrics	

## Skills

• <b>Technical Skills:</b> Python, Machine Learning, SQL, Java, C++, PyTorch, Deep Learning, JavaScript, Natural Language Processing, C/C++, Machine learning, Linux, TensorFlow, Generative AI, AWS
• <b>Soft Skills:</b> Teamwork, Technical Leadership, Communication, Analytical Problem-Solving, Stakeholder Management, AI Ethics, Project Coordination, Strategic Thinking