

# Shubham Jain

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## EDUCATION

- Purdue University - West Lafayette** Aug 2023 - Dec 2026  
*B.S in Computer Science, B.S in Artificial Intelligence, Minor in Mathematics* GPA: 3.83  
Relevant coursework: Data Structures & Algorithms, Computer Architecture, Systems Programming, Analysis of Algorithms, Discrete Mathematics, Multivariable Calculus, Linear Algebra, Data Mining and Machine Learning

## EXPERIENCE

- Robert Half - Protiviti** Jun 2025 - Present  
*Software Engineering Intern* San Ramon, CA
  - Built an ML pipeline in Salesforce Data Cloud, improving Opportunity prediction accuracy from **72% to 86%**.
  - Developed Lightning Web Components and Apex classes to enhance CRM functionality for Protiviti consultants.
  - Configured Salesforce environments; created backend integrations, streamlining sales workflows and enabling analytics.
- Indiana Fever (with The Data Mine)** Aug 2024 - May 2025  
*Machine Learning Lead: Undergraduate Data Science Researcher* Indianapolis, IN
  - Led supervised learning models (XGBoost, Random Forest) predicting player performance with **80% accuracy**.
  - Designed a Databricks Lakehouse pipeline to clean, aggregate, and transform **500K+ player stats**.
  - Reduced **RMSE by 23%** through **hyperparameter tuning** with GridSearchCV, model ensembling, and feature importance analysis.
- Elastik Teams** Jun 2022 - Aug 2022  
*Software Engineering Intern* Remote
  - Built RESTful APIs with Node.js/Express.js; integrated OAuth 2.0 to **cut login latency by 20%** and improve security.
  - Redesigned microservices architecture and implemented CI/CD, reducing deployment time from **1 hr to 10 mins**.
  - Achieved 98% code coverage through comprehensive test suite with **30+ unit tests** and TDD methodologies.

## PROJECTS

- Learnify** | React.js, Node.js, Express.js, HTML/CSS/JS, Google Gemini API  
*AI-powered educational platform*
  - Architected full-stack web app with React.js and Node.js, using REST APIs for modular architecture.
  - Integrated Google Gemini API for automated content generation, **boosting study resource creation by 60%**.
  - Enabled students to generate flashcards, study guides, and practice tests with NLP-powered workflows.
- Compiler** | C, Assembly Language, Lex, Yacc, Linux/Unix, Compiler Design, Systems Programming  
*SimpleC compiler with lexical analysis, parsing, and code generation*
  - Developed a compiler with lexical analysis, parsing, and x86\_64 assembly code generation.
  - Implemented semantic analysis for type checking, scope resolution, and compile-time error detection.
  - Optimized AST-to-assembly translation for improved performance and correctness.
- Sort-o-Matic** | Python, TensorFlow, OpenCV, Firebase, JavaScript, HTML/CSS  
*Computer vision waste classification system with CNN and IoT integration*
  - Trained a CNN in TensorFlow to classify waste in real-time with **85% accuracy**.
  - Built an IoT-enabled dashboard (Firebase backend + web UI) for device control and analytics
  - Awarded **3rd place** among 600+ participants at the EcoHacks hackathon.

## TECHNICAL SKILLS AND INTERESTS

- Languages:** Python, Java, C/C++, SQL, R, TypeScript, HTML/CSS/JS, Assembly.
- AI / ML Frameworks:** TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, NumPy, PySpark.
- Web & Systems:** React.js, Node.js, Salesforce (Apex, LWCs, Data Cloud, Agentforce), Databricks, Firebase.
- DevOps & Tools:** Git/GitHub, CI/CD (GitHub Actions), Linux/Unix, Microservices, Azure, Lakehouse.
- Core Strengths:** Full-Stack Development, Data Engineering, Machine Learning, AI Engineering.
- Interests:** Software Engineering, AI, Systems Engineering, Embedded Systems, FinTech, MedTech.