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

- **Protiviti (Robert Half)** *Jun 2025 - Present*

  Software Engineering Intern San Ramon, CA

  ○ Developing internal **web apps** using React.js, Next.js, and cloud platforms to streamline marketing operations.

  ○ Building **Salesforce backend integrations** and automations to enhance sales pipeline efficiency and data analytics.

  ○ Supporting AI/ML initiatives by **integrating LLMs and generative AI** tools into enterprise workflows.

- **Indiana Fever (with The Data Mine)** *Aug 2024 - May 2025*

  Machine Learning Lead: Undergraduate Data Science Researcher Indianapolis, IN

  ○ Led development of supervised learning models using **XGBoost** and **Random Forests** to predict player performance with **80% accuracy** on validation sets.

  ○ Built data pipeline for cleaning, aggregating, and transforming **500,000+ player stats** on Databricks Lakehouse.

  ○ 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

  ○ Developed RESTful APIs using Node.js and Express.js, demonstrating rapid adaptation to new technologies.

  ○ Enhanced security and **reduced login time by 20%** through OAuth 2.0 authentication and session management.

  ○ Optimized microservices architecture and implemented CI/CD pipeline.

  ○ 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 with NLP and prompt engineering

  ○ Architected full-stack web application using React.js and Node.js with RESTful API design.

  ○ Integrated Google Gemini API to automate content generation, **boosting productivity by 60%**.

  ○ Helped assist students in creation of flashcards, study guides, and practice tests.

- **Compiler** | C, Assembly Language, Lex, Yacc, Linux/Unix, Compiler Design, Systems Programming

  SimpleC compiler with lexical analysis, parsing, and code generation

  ○ Developed compiler for SimpleC language using C, implementing lexical analysis with Lex and parsing with Yacc.

  ○ Engineered code generation translating abstract syntax trees into **optimized x86_64 assembly** code.

  ○ Implemented semantic analysis for type checking, scope resolution, and compile-time error detection.

- **Sort-o-Matic** | Python, TensorFlow, OpenCV, Firebase, JavaScript, HTML/CSS

  Computer vision waste classification system with CNN and IoT integration

  ○ Built computer vision system using CNN in TensorFlow for real-time garbage classification with **85% accuracy**.

  ○ Designed **full-stack IoT application** with Firebase backend and web dashboard for device control and analytics.

  ○ Achieved 3rd place at EcoHacks hackathon among 600+ participants.

TECHNICAL SKILLS AND INTERESTS

- **Programming Languages**: Python, Java, C/C++, SQL, R, TypeScript, HTML/CSS/JS, Assembly.

- **Frameworks & Tools**: TensorFlow, Keras, PyTorch, Pandas, NumPy, PySpark, React.js, Node.js, Git, Firebase.

- **Technical Skills**: Machine Learning, Full-Stack Development, Systems Programming, CI/CD, NLP, CV.

- **Interests**: Artificial Intelligence, Software Engineering, ML Engineering, Embedded Systems, FinTech.