

Nimish Jain

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EDUCATION

Indiana University Bloomington, Master of Science in Computer Science, IN, USA **Expected May 2026**
Coursework: Software Engineering, Machine Learning, Advanced Database Concepts, Cloud Computing, Product Management
IPS Academy (RGPV), Bachelor of Technology in Computer Science & Engineering, MP, India **Jun 2022**

TECHNICAL SKILLS

Programming & Scripting Languages: Python, Ruby, C++, JavaScript, TypeScript, PHP
Web Development: HTML, CSS, jQuery, Bootstrap, React, Node.js, Express.js, Ruby on Rails, Laravel, Flask, REST APIs
Cloud, DevOps & Database: AWS (EC2, S3), Docker, Linux, CI/CD Pipelines, Git, MongoDB, MySQL, PostgreSQL
AI/ML: NumPy, Pandas, Matplotlib, Scikit-Learn, Transformers, TensorFlow
Practices & Methodologies: Agile (Scrum/Kanban), Test-Driven Development (TDD)

WORK EXPERIENCE

Software Engineer, Deqode Solutions **Jan 2022 – May 2024**

- Led daily scrum meetings as Project Manager for a German bank onboarding project, aligning business requirements and translating client requests into actionable user stories in Jira, resulting in a **25% increase** in deliverables efficiency within one quarter.
- Improved sprint predictability and project ramp-up speed by introducing microservice-oriented **design patterns**, transitioning the team to **Agile methodology**, and creating a structured onboarding and mentorship plan for new hires.
- Mentored 4 interns by pairing, code reviewing, & onboarding to the codebase, enabling production code delivery in their first sprint.
- Coordinated with multiple German bank providers and cross-functional teams to pitch and implement a white-label onboarding solution, replacing paper-based workflows and saving operational costs by **over €1 million** while ensuring strict GDPR compliance.

Software Developer Intern, Wappgo IT Services **Aug 2019 – Mar 2021**

- Optimized **database operations** across multiple projects, reducing query time by 15% and page load speed from **200ms to 50ms**.
- Led full-stack development of multiple projects across legal, construction, medical domains, delivering scalable solutions.
- Presented product demos and led feature reviews with clients, translating feedback into Jira tasks and reducing rework by 20%.

PROJECTS

Bank Onboarding Solution – Ruby on Rails, React, PostgreSQL, Sidekiq, Sentry, Redis, AWS

- Built a **custom PDF editor** and integrated document signing and video verification REST APIs, processing **1,000+ transactions monthly**.
- Engineered a reusable custom **role-based access control (RBAC)**, enabling flexible and scalable access control for diverse clients.
- Automated build–test–deploy pipelines and cron-scheduled tasks on **AWS**, achieving 90% test coverage and 30% faster deployment.
- Optimized system performance by integrating Sentry for real-time exception tracking & Redis for efficient high-performance caching.
- Integrated Twilio and Mailchimp APIs to deliver client notifications and implemented 2FA for secure logins and enforce access control.

Legal251 – MERN Stack, Laravel, Bootstrap, jQuery, MySQL, MongoDB, AWS

- Implemented **Razorpay payment gateway** with WebSocket events for live updates, handling ₹500K+ transactions at **99.9% uptime**.
- Designed MySQL and MongoDB schemas and developed end-to-end Admin and Customer dashboards from scratch, supporting **1,000+ concurrent users** with low-latency page loads and integrated real-time interactive **data visualization** using Chart.js.

Cognitive Memory Recognition Task (Human vs LLM) – Python, Machine Learning, Transformers, LLM, Prompt Engineering

- Evaluated memory performance using **Google's FLAN-T5 Large model** on five cognitive tasks from a Research study ([Paper](#)), achieving **96% free recall accuracy** and identifying key performance differences through comparative graph analysis.
- Devised task-specific datasets and refined contextual prompts using **T5Tokenizer**, boosting cued recall accuracy by 2.2x compared to human benchmarks and enabling more consistent memory performance across diverse cognitive tasks.

Bank Statement Analyzer – Python, Pandas, Flask, React, Machine Learning

- Developed a supervised learning model for loan risk assessment using a **Random Forest classifier**, analyzing transaction data, spending patterns, and cash flow trends to predict loan eligibility with 87% accuracy through cross-validation.
- Created Flask APIs to extract and **preprocess bank statement data** from uploaded PDFs using Python libraries, and integrated with a React frontend to deliver **real-time loan predictions** and interactive insights via Plotly.

LEADERSHIP & COCURRICULAR ACTIVITIES

- Head Building Manager at Indiana Memorial Union, managing 20+ staff, hiring new managers, and overseeing 500+ events monthly.