Nileet Savale

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PROFESSIONAL SUMMARY

Computer Science graduate student at Indiana University with expertise in full-stack development, cloud infrastructure, and AI/ML. Research Assistant at IU's Tobias Center managing cloud environments, CI/CD pipelines, and technical teams while developing AI-powered project management system.

TECHNOLOGIES

- **Languages**: Python, Java, C++, JavaScript, TypeScript, Solidity, HTML, CSS
- **Frameworks & Libraries**: React.js, Node.js, Express.js, React Native, TensorFlow, PyTorch, NumPy, Pandas, Scikit-learn
- **Databases & Tools**: SQL, MySQL, MongoDB, PostgreSQL, Firestore, Git, Docker, Jenkins, AWS, Firebase
- **Concepts**: Machine Learning, Deep Learning, Software Engineering, OOP, DSA, NLP, CI/CD, Cloud Infrastructure

EDUCATION

- **Indiana University** — Indiana, USA
  Master of science in Computer Science, GPA: 3.7 — *Aug 2024 – Jul 2026*
- **Savitribai Phule Pune University** — Pune, India
  Bachelor of engineering in Computer Science, CGPA: 8.9 — *Jul 2020 – Jul 2024*

PROJECTS

- **NoteNest - Smart Notes Management System** [Github]
  React.js, FastAPI, MongoDB, OpenAI API, Docker
  - Built full-stack note-taking app with AI auto-categorization using **GPT-4o-mini**, processing natural language inputs to organize notes into custom categories automatically.
  - Implemented real-time analytics dashboard with **Recharts**, soft-delete archiving, and **Dockerized deployment** enabling single-command full-stack launch.

- **AI-Powered Project Management System** [Github]
  React.js, Node.js, TypeScript, Firebase, TensorFlow
  - A platform with AI-driven task prioritization, automated scheduling, and predictive analytics for resource allocation.
  - Implementing **Kanban board**, **Gantt chart integration**, and **Firebase real-time collab** with role-based permissions.

- **FlashCard AI App** [Github]
  React Native, Python, Firebase, NLP
  - Created AI-driven mobile app converting lecture PDFs to interactive flashcards, scalable to university-level deployment.
  - Implemented quiz mode with **SM-2 spaced repetition algorithm** and **Firebase real-time sync** for cross-platform sessions.

- **LangViz: Language-Agnostic Visualization Tool** [Github]
  React.js, Node.js, Docker, PostgreSQL
  - Built secure visualization platform executing **Python/R code** in **Docker containers**, supporting **10+ visualization types**.
  - Enabled AI-assisted graph generation from natural language prompts with dynamic HTML preview and **PostgreSQL** history.

- **API for Cross-Team Collaboration** — Luddy Hackathon 2024
  Node.js, Express.js, MongoDB
  - Developed **RESTful API** locating team members across **100+ associations**, improving collaboration by **35%**.
  - Ensured scalability with **indexed queries** and modular endpoints capable of handling **10K+ daily requests**.

EXPERIENCE

- **Research Assistant – Global Health Impact Project** — Aug 2024 – Present
  Tobias Center for Innovation in International Development, Indiana University — *Indiana*
  - Lead technical strategy for global health forecasting, managing **Jetstream2 cloud infrastructure** (**99.9% uptime**) and teams coordinating deployment of tools serving international development organizations.
  - Architect **CI/CD pipelines** with **Jenkins** for Next.js applications (**75% faster deployment**) and direct migration from PythonAnywhere to **containerized Jetstream2**, while managing student hiring/training programs

- **Teaching Assistant – Elements of Artificial Intelligence** — Aug 2024 – Dec 2024
  Indiana University — *Indiana*
  - Supported Prof. Saul Antonio Blanco Rodriguez in managing **80+ student class** with office hours, grading, and interactive sessions integrating **real-world AI applications**.

- **Project Management Intern** — Nov 2023 – Apr 2024
  Wipro PARI Ltd — *Pune, India*
  - Mentored by **5 senior project managers** across **60+ hours**, boosting professional and project coordination skills.
  - Contributed to **FAT3 testing** for **3 major projects**, achieving **15% reduction** in testing time and **20% improvement** in validation.

- **Web Developer Intern** — Mar 2023 – Jun 2023
  SearchIn — *Pune, India*
  - Designed and tested **3 web applications** across **5 platforms**, resulting in **25% increase** in user engagement.
  - Enhanced existing applications, improving efficiency by **30%** and reducing bugs by **40%**.

PUBLICATIONS

- [Transforming Household Waste Management: IoT-Enabled Smart Dustbin](#) – *IEEE, Oct 2024*