

Krishna Prasanth Sridhar

AI Product Engineer

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📍 Chicago, IL

SUMMARY

AI Engineer with proven experience in end-to-end **product development** and deployment of **machine learning** and **Generative AI** solutions. Strong background in **full-stack development**, enabling seamless integration of AI into user-facing applications. Skilled in translating research papers into practical implementations and shipping products independently. Demonstrates strong communication and stakeholder management abilities, with a problem-solving mindset and entrepreneurial approach to building scalable, impactful AI-driven systems.

SKILLS

- **Programming & Web Technologies:** JavaScript, TypeScript, Python, HTML5, CSS3
- **Frontend Development:** React.js, Next.js, Angular, Vue.js, Redux, Context API, Tailwind CSS, Responsive & Accessible UI
- **Backend & APIs:** Node.js, RESTful APIs, GraphQL, FastAPI, WebSockets, Authentication & Authorization
- **Databases & Data Handling:** MongoDB, MySQL, PostgreSQL
- **AI & Modern Development:** OpenAI API, Gemini, Agentic Workflows, Tool Calling, Prompt Engineering, AI-Assisted Development Tools
- **CMS, Cloud & DevOps:** Adobe Experience Manager (AEM), Azure App Service, Azure Static Web Apps, Vercel, CI/CD Pipelines
- **Engineering Practices & Tools:** Git, GitHub, Postman, Docker, Agile/Scrum, SDLC, Code Reviews, Performance Optimization

WORK EXPERIENCE

AIFS

Naperville, Illinois

AI Product Engineer Intern

Jun 2025 – Aug 2025

- Led end-to-end **product development**, designing, building, and deploying AI-powered applications using **machine learning** and **Generative AI**. Delivered production-ready solutions with a focus on scalability, usability, and performance across real-world business scenarios.
- Built full-stack applications with strong expertise in **backend development** and intuitive **UI/UX design**, ensuring seamless integration of AI models into user-facing systems. Created responsive and efficient interfaces to enhance user experience and adoption.
- Translated concepts from **ML research papers** into practical implementations, enabling innovation in model design and system capabilities. Applied experimental approaches to improve accuracy and efficiency of AI solutions in production environments.
- Independently shipped AI products, demonstrating ownership and ability to execute across the lifecycle. Maintained a strong **portfolio** including projects, GitHub repositories, and case studies showcasing expertise in **NLP**, computer vision, and generative AI.
- Collaborated with stakeholders and led discussions to understand workflows and business logic. Applied strong **problem-solving** and analytical skills to design effective solutions, while contributing to team building and driving innovation with an entrepreneurial mindset.

GOWEBEZ – Inflowcare & Language Dynamic Groups | Chennai, India

Software Engineer

Mar 2021 – Dec 2023

- Built healthcare-focused machine learning models using **Scikit-learn**, **XGBoost**, and **Random Forest**, **computed** patient risk predictions, and **managed** clinical datasets to improve diagnosis accuracy and enable data-driven treatment recommendations.
- Analyzed structured and unstructured healthcare data using **SQL Server** and **MongoDB**, **applied unsupervised learning** and **clustering** techniques, and **monitored** large datasets to identify disease patterns and support population health management initiatives.
- Developed deep learning solutions using **Keras** and **PyTorch**, **participated** in **NLP** and **computer vision** use cases, and **modified** neural network architectures to improve clinical text analysis and medical imaging interpretation.
- Implemented end-to-end pipelines on **Azure Machine Learning** and **Databricks**, **applied MLOps**, **version control**, and **CI/CD for ML models**, and **troubleshoot** deployment workflows to ensure scalable, compliant, and production-ready healthcare AI systems.

- **Collaborated** with clinicians and analysts to **design** experiments, **performed** statistical analysis and **A/B testing**, **communicated** insights effectively, and **researched Generative AI** and **agentic applications** to **enhance** patient engagement and clinical decision support systems

EDUCATION

Illinois Institute of Technology | Chicago, IL

Master's, Information Technology & Management

Jan 2024 – Dec 2025

PROJECT

Job Application Agent

- Architected a **multi-agent pipeline using LangGraph** to orchestrate job search, ATS scoring, resume tailoring, and automated job application submission end-to-end.
- Built an **ATS scoring agent using the Claude API** to evaluate resume-to-job-description alignment across four scoring dimensions and filter out roles below a **60% match threshold** before executing additional LLM calls.
- Integrated **dual LLM support (Claude Sonnet and GPT-4o)** with an automatic fallback mechanism to maintain system uptime and reliability when API rate limits or service interruptions occurred.
- Automated job application workflows across **LinkedIn Easy Apply** using **Playwright**, implementing randomized interaction delays and structured error capture to minimize automation detection and improve submission reliability.
- Deployed the backend infrastructure on **Google Cloud Run** with scheduled automation using **Google Cloud Scheduler**, built a **Next.js dashboard** hosted on **Vercel**, and managed application data storage using **PostgreSQL on Supabase**.

FlowPilot

- Engineered an **AI-powered planning agent using OpenAI GPT-4** to automatically break down project goals into actionable tasks and epics, reducing manual project planning time by approximately 80%.
- Implemented three specialized **AI agents** (planning, summary, and risk detection) to generate automated daily status reports and proactively identify potential project risks.
- Built an interactive **Kanban board using React** with drag-and-drop task management, enabling real-time workflow updates and seamless task movement across multiple project stages.
- Integrated a **GitHub webhook system** to synchronize task statuses automatically, allowing tasks to close automatically when the associated pull requests were merged.
- Developed a secure multi-tenant authentication system using **NextAuth.js**, **GitHub OAuth**, and **bcrypt hashing**, supporting role-based access control for Owner, Manager, and Developer roles.
- Designed a scalable relational database schema using **PostgreSQL** with **Prisma ORM** to manage structured data across projects, tasks, epics, and user workspaces efficiently