

Pranav Balaji

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EDUCATION

Purdue University

BS Computer Engineering, Minors: Math & Finance

Coursework: Operating Systems, System Design, Object Oriented Programming, Linear Algebra

May 2028
West Lafayette, IN

EXPERIENCE

Software Engineer Intern

Chewy

Jun 2026 - Aug 2026
Boston, MA

- Led migration of a Java/Spring Boot application's backend, frontend, and API gateway from AWS ECS to EKS, redesigning deployment configs to support 5,000+ agents and cut costs by \$100K/year.
- Orchestrated a phased cutover across 18 environments, building and validating Docker/EKS CI/CD migration workflows with zero downtime.
- Engineered an AI on-call agent that monitors Slack incidents and parses code and logs, cutting response time from 2 hours to 5 minutes and saving 10+ hours per week.

Software Engineer Intern

Staples Inc.

Jun 2025 - Aug 2025
Boston, MA

- Built an AI Jenkins agent that diagnosed 60+ daily pipeline failures from build logs and stack traces, cutting CI/CD troubleshooting time by 60%.
- Developed a RAG analytics chatbot over 1M+ live database rows that generated dashboards and reports, saving 2+ hours per reporting cycle.
- Migrated release management for 100+ microservices from JSP to React/Spring Boot, modernizing the deployment workflow for release engineers.

Software Engineer

Chip Count

Jan 2026 - May 2026
West Lafayette, IN

- Scaled a poker settlement platform to 500+ users with Next.js, Supabase, and Vercel.
- Cut settlement time by 93%+, from 15+ minutes to under 1 minute, using an optimized debt-matching algorithm.
- Improved three core game workflows with persistent sessions, automated payouts, and validated URL state.

Research Intern

Indian Institute of Technology

Jun 2024 - Aug 2024
Mumbai, India

- Built an R/dplyr pipeline to clean and process 20K+ wage survey records for large-scale statistical analysis.
- Created four ggplot visualizations and automated reporting workflows, reducing manual analysis time by 30%.

SELECTED PROJECTS

LocalBrain (UC Berkeley Hacks 2026)

Python, FastAPI, Next.js, Electron, Tailwind CSS

- Built a local second brain storing 5,000+ data points to bring durable context into LLM agents.
- Designed an indexing and retrieval layer letting LLMs query 10,000+ documents with 90%+ accuracy.
- Implemented connector pipelines across 3+ sources, including Slack and Gmail, with ten-minute synchronization.

Sports Betting Models

Python, Pandas, NumPy, The Odds API, scikit-learn, PostgreSQL

- Trained Random Forest regression models on 8,000+ NBA player logs, predicting points, assists, and rebounds with 65% accuracy.
- Built a real-time pipeline for 1,200+ weekly odds, 100+ daily injury updates, and live player statistics.
- Reduced mean absolute error by 12% with player-consistency feature engineering.

TECHNICAL SKILLS

AI / ML: PyTorch, Gemini API, OpenAI Codex, Claude Code, Cursor Languages: Python, Java, Go, C++, C#, SQL, JavaScript, TypeScript, HTML/CSS, Verilog HDL

Frameworks: React Native, React, Node.js, Express.js, FastAPI, Expo, Prisma, Material UI, Unity DevOps: Git, Docker, AWS, Azure, Jenkins, Jira