

Kush Kodiya

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EDUCATION

Purdue University, College of Science

West Lafayette, IN

Bachelor of Science in Computer Science GPA: 3.64/4.00

Aug. 2024 – Dec. 2027 (Expected Graduation Date)

Minors in Mathematics and Statistics

Relevant Coursework and Certificates:

Google: Artificial intelligence and productivity, Object-Oriented Programming, Data Mine, CS Tools, Intro to C, Discrete Math, Multivariate Calculus, Linear Algebra, Intro to Statistics, Computer Architecture, Data Structures and Algorithms

EXPERIENCE

Software Engineering Intern

June 2026 – Present

Reliance Matrix

Philadelphia, Pennsylvania

- Shipped Java backend services and React UI for EIS insurance platform, boosting team efficiency by 8%
- Debugged REST endpoints and UI state issues across remote Linux and local Windows development environments
- Deployed Dockerized services to Kubernetes pods via Jenkins CI/CD and used agentic AI to trace defects

Data Science Researcher

Jan. 2026 – May 2026

Johnson & Johnson

West Lafayette, Indiana

- Standardized highly unstructured oncology trial data into a unified schema to identify key predictors
- Engineered a LASSO-regularized pipeline that reduces 300+ features to 8–10 predictors for a survivability model
- Developed a predictive Cox Proportional model with stable generalization to predict survival rates

Autonomous Racing Researcher

Aug. 2025 – May 2026

Purdue University

West Lafayette, Indiana

- Built a high accuracy GPS data pipeline using Python and NTRIP corrections for autonomous kart navigation
- Implemented real time localization with a Kalman filter that combined GPS and IMU data to map tracks
- Integrated a control framework using high fidelity GPS data to predict upcoming turns for path planning

Software Engineer Intern

May 2025 – September 2025

Planet Web Solutions

- Programmed a full-stack web application with React and Node.js enabling users to create and edit blog posts
- Integrated user authentication and authorization with JSON Web Tokens for secure access
- Designed and optimized MongoDB schema to store and retrieve user interaction data including likes and comments

PROJECTS

Willy's Apprentice | C#, Python, Flask

nexusmods.com/stardewvalley/mods/49080

- Built a C# Stardew Valley mod with an in-game UI indexing 100% of the item catalog from a compiled dataset
- Designed an LLM-powered RAG AI chatbot to answer gameplay questions using wiki data and save-state queries
- Developed a Python fishing agent that checks season and weather and drives C# game input to reach fishing goals

ChipCount | Next.js, React, TypeScript, Supabase, Tailwind CSS

chipcount.pranavbalaji.org

- Built a full-stack poker website with game hosting, player management, and optimized payout calculation
- Engineered a debt tracking system using a two-pointer approach to optimize payments between players
- Designed a tracking system for player profits, debts, and payment methods across multiple game sessions

Job Scraper | Python, Playwright, BeautifulSoup, SQL (Postgres), Slack Bolt

- Engineered a Playwright based web scraper to find 200+ daily internship listings from multiple job boards
- Developed a custom Slack Bot with role based subscription logic, enabling users to receive real time job alerts
- Implemented a SQLite and SQLAlchemy system to prevent duplicate alerts, reducing notification noise by 90%

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, R, C, SQL, TypeScript, C++, C#

Frameworks: Node.js, Flask, Express.js, Bootstrap, Tailwind, Next.js

Developer Tools: Github, VS Code, Azure DevOps, Firebase, Supabase, Claude Code, Jenkins, Docker, Kubernetes

Libraries: pandas, NumPy, Matplotlib, scikit-learn, Gymnasium, React, Playwright, BeautifulSoup, Slack Bolt