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

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
- Built 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

- Built a full-stack web application with React, Node.js, and Express.js enabling users to create and edit blog posts
- Developed user authentication and authorization with JSON Web Tokens for secure access
- Designed and optimized MongoDB schema to efficiently store and retrieve user interaction data (likes, comments)

Data Science Intern June 2023 – July 2023

Ascendion

- Developed machine learning models in Python (scikit-learn) to predict medical outcomes with improved accuracy
- Built an AI chatbot using Azure templates to assist doctors in diagnosing patients based on symptoms
- Created a Flask-based API to deliver disease predictions from a structured SQL (Postgres) database

Projects

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
- Implemented a debt system using a two-pointer approach to reduce the number of 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%

Rocket League | *Python, ROS, Gymnasium*

- Developed a reinforcement learning model in Python that learns to play a simplified Rocket League environment
- Created a ROS-based simulation where two autonomous cars interact and compete within the custom environment
- Used Gymnasium to implement training loops, performance evaluation, and optimization of model behavior

Technical Skills

Languages: Java, Python, JavaScript, HTML/CSS, R, C, SQL, TypeScript, C++
Frameworks: Node.js, Flask, Express.js, Bootstrap, Tailwind, Next.js
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, IntelliJ, Microsoft Azure, Firebase, Vim, Supabase
Libraries: pandas, NumPy, Matplotlib, scikit-learn, Gymnasium, React, Playwright, BeautifulSoup, Slack Bolt