

Devank Yadav

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EDUCATION

The Pennsylvania State University

B.S. Computational Data Science, College of Engineering

University Park, PA

Expected December 2027

EXPERIENCE

Taikisha Group

Software Development Intern

India

May 2025 – August 2025

- Built a React internal web application for Skoda India that digitized documentation management for industrial parts, replacing a paper-based maintenance workflow.
- Implemented QR code scanning to retrieve manuals and product documents instantly on the factory floor, alongside malfunction reporting and replacement-part ordering in a single flow.
- Integrated vendor quotation generation and built role-based user management for secure access across engineering and procurement teams.

Penn State IT

IT Support Technician

University Park, PA

March 2026 – Present

- Troubleshoot hardware, software, and network issues for students and faculty across Windows, macOS, and university systems, resolving ~30 tickets weekly.
- Document recurring issues and resolutions to reduce repeat escalations and shorten first-response time.

PROJECTS

glanceOS

July 2026

- Built an open-source, self-hosted platform that turns any browser-capable screen — an old TV, a Raspberry Pi, an e-ink panel — into a zero-touch live dashboard requiring no login or interaction at the display; ships as a single binary with one embedded database and no external data egress.
- Implemented a drag-and-drop canvas builder over 190 service integrations (GitHub, Stripe, Google Calendar, transit, markets) plus webhook and user-defined data sources, with 166 prebuilt boards and scheduled multi-page rotation per display.
- Engineered a time-series alerting engine with sustained-condition and stall detection, distinguishing transient spikes from genuine incidents to suppress false alarms.

CarbonSight — PennApps XXVI Winner, MLH Best Use of Gemini API

September 2025

- Built a carbon-aware optimization framework for LLM workloads: prompts route across Gemini Flash, Pro, and Flash-Lite based on energy thresholds and user-set quality tolerance.
- Developed the React dashboard layer — per-query efficiency badges, team leaderboards, and org-wide manager analytics — on a FastAPI and Google ADK agentic backend.
- Cut redundant compute with a semantic caching layer using Gemini embeddings and cosine similarity; integrated OpenZeppelin ERC-20/ERC-721 contracts on Polygon to issue verifiable efficiency rewards.

Zoodu — HackPSU 2024 Winner, ICDS Challenge Track

October 2024

- Designed and built a Retrieval-Augmented Generation chatbot answering natural-language queries against the ICDS User Guide; won the Institute for Computational and Data Sciences track for accuracy, UX design, and innovation.

iPad-to-Mac Pressure-Sensitive Drawing Tablet

June 2026

- Built a macOS driver using DriverKit and Peertalk that turns an iPad into a pressure-sensitive input device over USB, handling low-level tablet event translation and pressure curve mapping.

LEADERSHIP

Developers at Penn State

Founder & President

University Park, PA

November 2024 – Present

- Founded and lead Penn State's largest developer community, growing it to 70+ active members.
- Organize technical workshops, coding competitions, and hackathons that drive project-based learning and peer mentorship.

SKILLS

Languages: Python, C++, Java, JavaScript, SQL

Frameworks & Tools: React, Node.js, Express, FastAPI, Docker, Git/GitHub, MySQL, MongoDB, Supabase

AI & Data: Retrieval-Augmented Generation, embeddings and semantic search, Google ADK, Gemini API, REST API development