Parth Dave

Pittsburgh, PA | pdave7848@gmail.com | (510) 771-4382 | linkedin.com/in/parth-dave-a0288221a | github.com/ParthD25 | parthdave.me

Education

Carnegie Mellon University, Heinz College
Master of Science in Artificial Intelligence Systems Management (AIM)
Aug 2026 – Dec 2027

Relevant Coursework: AI Strategy, Data-Focused Python, Operationalizing AI, Data Engineering, Decision Modeling

California State University, East Bay
Bachelor of Science in Computer Science | Minor: Cell & Molecular Biology | Cum Laude | Dean's List | GPA: 3.7
Aug 2022 – May 2026

Skills

Software & Data: Python, TypeScript, JavaScript, SQL, PostgreSQL, Java, C++, Dart, Swift, Ruby, React, REST APIs, database architecture, Git, GitHub, AWS, Docker, CI/CD, automated testing, Agile
AI, Machine Learning & Security: large language model (LLM) evaluation, prompt engineering, agentic AI workflows, retrieval-augmented generation (RAG) applications, NumPy, TensorFlow, Keras, PyTorch, scikit-learn, AI red teaming, zero-trust architecture
Platforms & Tools: Microsoft Entra ID, Microsoft Defender, SkyDRM, Windows Enforcer, Claude Code, GitHub Copilot, Cursor, MCP servers

Experience

Software Engineer Intern & AI Enforcer Research Lead | NextLabs
Jan 2026 – Aug 2026

- Initiated and led AI Enforcer research investigating how agentic AI tools, desktop apps, and CLI workflows can bypass enterprise data-access controls; contributed to new product development and safeguard strategy for SkyDRM and Windows Enforcer.
- Upgraded legacy OLS development infrastructure from Visual Studio 2008 to VS 2017, resolving critical cross-platform compatibility dependencies to prevent a total halt in the product pipeline.
- Designed data-centric access-control policies within zero-trust security environments and configured Microsoft Entra ID and Microsoft Defender for client-specific deployments.
- Presented research and engineering proposals to senior executives and cross-functional teams across Singapore and China; briefed the CEO directly on AI enforcement findings.

IT Systems Administrator (Part-time) | Aspen Dental Care
Dec 2020 – Aug 2026

- Promoted from Dental Assistant Intern to IT Intern to IT Systems Administrator; maintained clinic systems, practice-management software, workstations, and website operations for a multi-provider dental practice.
- Redesigned the public website with a mobile-first layout and standardized privacy-conscious patient workflow documentation.

Software Engineer Intern | Esurgi, Inc.
Dec 2025 – May 2026

- Built internal web and iOS application features using React, SwiftData, and PostgreSQL-backed workflow design.
- Improved WordPress site across design, content, accessibility, mobile responsiveness, search visibility, and performance.
- Partnered with product management and leadership to prioritize feature updates and ship improvements in short iterations.

AI Model Evaluation Specialist | Handshake
Nov 2025 – Jan 2026

- Evaluated hundreds of LLM outputs for accuracy, clarity, safety, and tone across technical and real-world prompts, authoring edge-case scenarios to surface model weaknesses.

Projects

RaceShift | F1 Lap-Time Forecasting
Sep 2026 – Present

- Created a React and TypeScript and FastAPI app over a pandas and scikit-learn pipeline that forecasts F1 next-lap times from 128K+ race laps and backtests races the model never trained on.

SimplyWins | AI vs. Rules Decision Platform
Aug 2026 – Present

- Developed a FastAPI, SQLAlchemy, and Firebase web app, live on Vercel, that compares rules, TF-IDF with logistic regression, and LLMs to recommend the simplest method that meets a task's requirements.
- Enforced quality with 569 automated tests, Playwright browser checks in CI, and an encrypted server-side credential vault that never returns API keys to the browser.

BlueCore | AI Aquatics Operations Platform
Mar 2026 – Present

- Building an all-in-one platform for aquatic facilities with scheduling, certification tracking, coverage requests, inventory management, and operational analytics.

Certifications

MIT AI and Data Science, IBM SkillsBuild AI Lab, IBM Agentic AI, MongoDB RAG Apps, Microsoft Azure AI Essentials, AKYADE AI Security Practitioner, CS50 Databases with SQL (Harvard), Cisco CCNA