Aditya Parekh

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EDUCATION

University of Wisconsin-Madison **Expected Graduation May 2027**
Double B.S. in Computer Science and Data Science *Madison, WI*

- **Coursework:** Linear Algebra, Data Structures & Algorithms, Object-Oriented Programming, Machine Learning
- **Awards:** MadData25 Hackathon **1st Place** (40+ Teams, 200+ Participants), **Top 3** at Badger Launch Competition, **Top 3** at University Madness Startup Pitch Competition (10 Universities, 25+ Teams), **Top 5** at Fetch Defeat the Odds Competition (30+ teams)

EXPERIENCE

Hussmann | *Software Engineer Intern* ***May 2025 - Aug 2025***

- Engineered a predictive anomaly detection pipeline for refrigeration systems using **AWS S3, SageMaker, MySQL and Python (Pandas, NumPy)**, analyzing **100K+** time-series sensor values and reducing costs and repairs by **40%**
- Authored reports outlining **15+** recurring failure conditions (e.g., temperature anomalies, compressor cycles); adopted into company-wide predictive maintenance platform
- Built an immersive VR demo and an AI-powered chatbot using **Azure OpenAI** LLMs and fine-tuning with internal refrigeration documentation, enabling training simulations for technicians and accelerating support queries by **70%**; awarded 1st place in the Ideation & Innovation Challenge (30+ participants)

Wisconsin Autonomous Club | *Software Engineer* ***Sept 2024 – May 2025***

- Architected a real-time perception system for autonomous vehicles enabling lane, cone, and boundary detection
- Optimized computer vision algorithms (**OpenCV, ML models, sub-100ms**) for efficiency and reproducibility
- Integrated perception module into end-to-end autonomous driving pipeline, collaborating with 30+ engineers on design reviews, **CI/CD**, and code quality

BooksToBorrow | *Full-Stack Developer Intern* ***Jun 2023 – Aug 2023***

- Developed and deployed user-facing features (Dashboard, MFA, OAuth, Account Deletion) using **React** and **MongoDB**, containerized with **Docker** and deployed on **AWS ECS**; utilized **CI/CD** pipelines to maintain platform stability
- Built and validated **RESTful APIs** with **Postman**, enhancing reliability and consistency between staging and production
- Assisted in platform rollout, driving a successful product launch achieving over **13,000 users** within the first **96 hours**

PROJECTS

ClaimReady | *useclaimready.ai* | *github.com/adiparekh944/MadData25*

- Co-founded and led frontend development **(Vercel, Next.js)** of **5x** award-winning AI web application that generates complete home inventories and reduces insurance claim valuation time from **20+ hours** to under **2 mins**
- Scaled to **5000+** users by deploying an image valuation pipeline, via **Docker, Vercel, AWS ECS/Fargate**, **YOLO11** for detection, **Gemini API** for brand/price retrieval, and **Supabase**; processing **22,000+** images and valuing **$20M+** in items
- Seen as “investor-ready” by judges; acknowledged by YC partners and UW-Madison CS Dept for technical excellence

Gordon AI | *https://github.com/adiparekh944/gordonai*

- Developed Gordon AI, an AI-powered cooking assistant leveraging **Google Gemini API**, prompt engineering, and persona emulation to deliver dynamic, in-character responses in the style of Gordon Ramsay
- Built a full-stack web app using **React/Next.js** and **Typescript**, enabling real-time interaction, user authentication, and seamless recipe management through an intuitive UI
- Integrated **Supabase** to persist user data and preferences (e.g., cuisine, allergens, dietary restrictions), enabling personalized recipe recommendations through structured filtering and context-aware retrieval

Vecaid | *https://github.com/adiparekh944/Vecaid-Beta*

- Developed an AI-driven stock prediction system using deep learning and ensemble models **(GRU, CNN-LSTM, XGBoost)**, improving trend prediction stability and reducing forecasting error across 60-day backtests
- Optimized model performance with Bayesian hyperparameter tuning, reducing training error (RMSE) by **25%**
- Engineered a **Flask**-based full-stack web app displaying data supporting real-time predictions for **50+** tickers

SKILLS

Languages: Python, Java, JavaScript/TypeScript, MySQL, HTML/CSS, Go, Perl, C/C++
Frameworks & Libraries: React.js, Next.js, Flask, OpenCV, Computer Vision (YOLO), Pandas, NumPy, XGBoost
Developer Tools & Platforms: Git/GitHub, Docker, AWS (SageMaker, ECS, Fargate, S3), Azure Open AI, Supabase, MongoDB, Postman, RESTful API, CI/CD, Vercel