Aditya Parekh

(314) 600-5702 • adityaparekh944@gmail.com • linkedin.com/in/adiparekh/ • adityaparekh.com • US Citizen

EDUCATION

University of Wisconsin-Madison **Expected Graduation December 2027**

Bachelor of Science in Computer Science and Data Science *Madison, WI*

- **Coursework:** Linear Algebra, Data Structures & Algorithms, Object-Oriented Programming, Machine Learning, Statistics, Artificial Intelligence, Operating Systems, Big Data Systems, Database Systems
- **Awards: 1st Place** at MadData25 Hackathon (40+ Teams, 200+ Participants), **Top 3** at Madison Startup Competition, **Top 3** at Midwest Startup Pitch Competition (25+ Teams), **Top 5** at Fetch Defeat the Odds Competition (30+ teams)

EXPERIENCE

Tesla |*Software Engineer Intern* ***Jan 2027 - May 2027***

- Incoming Winter/Spring 2027 on the People Products Team

Amazon | *Software Development Engineer Intern* ***Jun 2026 - Sep 2026***

- Built and designed an internal dashboard to monitor aggregated metrics (latency, growth trends, failure rates) across **530 pipelines** using **React, Java, TypeScript, AWS (Lambda, Step Functions, DynamoDB, API Gateway, and EventBridge)** on **40k+ daily events, enabling 30+ teams** to reduce manual status checks by **50%** and cut resource costs by **25%**
- Built **MCP servers** that enabled natural-language access to pipeline metrics, reducing retrieval time by **35%**

Traders at Wisconsin Club | *Software Engineer* ***Jan 2026 - May 2026***

- Worked with the former Chief Risk Officer of **Two Sigma** to design software infrastructure and backtest strategies on a **$1,000,000** portfolio and achieved a **Sharpe ratio of 1.2** using **Python, Flask, Docker**, and **Google Cloud Platform**
- Developed predictive models using **Python (NumPy, Scikit-learn, Pandas)** and **Yahoo Finance (yfinance)**, applying regression, momentum, and statistical backtesting for integration into the multi-strategy portfolio system

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

- **Reduced costs and repairs by 25%** by building and designing a predictive anomaly detection model via **Apache Kafka** to stream and process **100K+** sensor events, while utilizing **AWS S3, AWS SageMaker, PostgreSQL, Python, and RESTful APIs**
- Authored reports documenting **15+ recurring failure conditions**, which were incorporated into monthly company-wide predictive maintenance reporting
- **Accelerated support queries by 50%** by building an immersive VR application linked with an AI chatbot using **Azure OpenAI LLMs** trained with internal refrigeration documentation, enabling scalable technician training simulations and **awarded 1st place** in the Ideation & Innovation Challenge (30+ participants)

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

- Achieved **2nd place** overall in SAE Autodrive Challenge by engineering a real-time perception system for autonomous vehicles enabling lane, cone, and boundary detection
- Optimized computer vision models **(C++/Python, OpenCV, ML, sub-100ms)** and integrated a perception module into an end-to-end autonomous driving pipeline, collaborating with **30+** engineers on design reviews and **CI/CD** workflows

BooksToBorrow | *Software Engineer Intern* ***Jun 2023 – Aug 2023***

- Designed and deployed cloud-native user features (Dashboard, MFA, OAuth) and used **Django RESTful APIs**, **MongoDB**, **React Testing Library**, **Postman**, containerized with **Docker**, and scaled on **AWS ECS** to improve deployment reliability.
- Assisted in platform rollout, driving a successful product launch achieving over **13K users** within the first **96 hours**

PROJECTS

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

- Co-founded and led full-stack development **(React, TypeScript, Python, Vercel)** of **5x** award-winning AI web app that creates complete home inventories and reduces insurance claim valuation time from **20+ hours** to under **2 mins**
- Scaled to **1K+** users by deploying a distributed image valuation pipeline with **Docker, Kubernetes,** and **AWS ECS/Fargate** leveraging **YOLO11** and **Google Gemini**, ensuring fault-tolerant processing of **4K+** images valuing **$2M+** in assets
- Seen as “investor-ready” by judges, acknowledged by YC partners and UW-Madison CS Dept for technical excellence

SKILLS

Languages: Python, Java, JavaScript, TypeScript, Go, C, C++, SQL, HTML, CSS, Bash, Shell

Frameworks & Libraries: React.js, RESTful API, Django, Next.js, Flask, Node.js, TensorFlow, PyTorch, OpenCV, YOLO, React Testing Library, Pandas, NumPy, Matplotlib, Scikit-learn, Jupyter Notebook, TailwindCSS

Developer Tools & Platforms: Git/GitHub, Docker, Kubernetes, Apache Kafka, Vercel, Postman, CI/CD

Cloud & Databases: AWS (S3, ECS, Fargate, SageMaker, Lambda, DynamoDB, EventBridge, API Gateway), MongoDB, PostgreSQL