Aarav Pai

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OBJECTIVE

Highly driven undergraduate seeking summer 2026 internship opportunity where my leadership and technical skills, curiosity and drive can be leveraged for impactful outcomes.

EDUCATION

Purdue University, College of Science — **Expected Graduation Date: December, 2026**
Bachelor of Science, Computer Science | Current GPA: 3.99

Relevant Courses: Data Structures and Algorithms, Data Mining and Machine Learning, Cryptography

WORK EXPERIENCE

SDE I Summer Intern — **Austin, Texas**
Amazon — **May 2025-August 2025**

- Developed an internal web platform for the Amazon Business Integrated Ordering team to centralize API debugging, cutting average debugging effort from minutes to seconds
- Engineered a serverless backend using AWS Lambda(Java) behind API Gateway, integrating with Cloudwatch API's and debugging tools to retrieve and aggregate logs across 6 accounts in 3 regions
- Built a React frontend to visualize logs and metadata, enabling faster issue diagnosis and ticket response times
- Optimized workflows using multi-threading and caching, ensuring faster response times and scalability in production environments

Undergraduate Student Researcher — **West Lafayette, Indiana**
Open Ag and Technology and Systems Center — **May 2024 - May 2025**

- Co-Authored 2 Papers for my work
- Developed custom GPT models for integrating with external API's, enhancing data interaction capabilities
- Created an API using Flask and Ngrok to facilitate secure querying of a private PostgreSQL database

RESEARCH EXPERIENCE

Undergraduate Data Science Researcher — **West Lafayette, Indiana**
The Data Mine - Purdue University — **January 2024 - May 2024**

- Collaborated with the Aerospace Corporation to develop a method for organizing telemetry data and detect anomalies
- Researched and developed algorithms to reduce noise in telemetry data and generate better estimates using Kalman Filtering
- Utilized Python to filter RINEX data files from NASA's Grace mission, plot enhanced estimates, and identify known anomalies

Undergraduate Student Research for Credit — **West Lafayette, Indiana**
Data Interoperability in Agriculture Research — **January 2024 - May 2024**

- Used Python and NATS infrastructure to develop an event based data pipeline to enhance agricultural efficiency
- Coordinated with real world sensors on Purdue Campus to detect the occurrence of pre-defined events and inform interested parties in real time
- Wrote functions to analyze data from pipeline to make dynamic, data driven decisions in real time

LEADERSHIP AND SERVICE

Alpha Kappa Psi - Chaplain — **West Lafayette, Indiana**
January 2025-May 2025

- Held an executive position overseeing conflict management and resolution in a chapter of >70 members
- Oversaw 2 committees, creating bonding and professional development events by collaborating with professional speakers and local organizations

RELEVANT SKILLS

- Languages: Java, Python, SQL, C
- Familiar with psycopg2 for PostgreSQL, Flask, Github, Postman
- Familiar with common AWS tools: Lambda, API Gateway, CloudWatch, S3, IAM