

Parksunnath RPK

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SUMMARY

At Acarin Inc, built a real-time observability pipeline (Docker, InfluxDB, Grafana) that isolated bottlenecks for an AI HR platform under 20,000 concurrent users and replaced manual regression testing with a Playwright/Cucumber suite. **Built and shipped an app now used by Binghamton University clubs**, plus a RAG chatbot with prompt-injection guardrails, a developer-intelligence platform, and an autonomous AI news pipeline. Strong CS fundamentals with a track record of **owning projects from idea to production, not just closing tickets**.

EDUCATION

Binghamton University, State University of New York Binghamton, NY

Bachelor of Science in Computer Science **GPA: 3.80**

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Machine Learning, Operating Systems, Computer Architecture, Database Systems, Computer Networks, Theory of Computation, Cloud Computing, AI

TECHNICAL SKILLS

Languages: Python, Java, C++, C, JavaScript, TypeScript, SQL, Bash (strong OOP foundation, transferable to C# and .NET)

AI & Data: Scikit-learn, NumPy, Pandas, OpenCV, Hugging Face, LangChain, RAG, MCP, pgvector, OpenAI APIs, AI Evals

Web & Backend: React, React Native / Expo, Node.js, Fastify, Express, FastAPI, Flask, PostgreSQL, MongoDB, Redis, WebSockets, Drizzle, REST APIs

Architecture: CLEAN Architecture, Microservices, RESTful Design, Event-Driven, Agile, Scrum

Testing & Observability: Playwright, Cucumber BDD, k6, Testcontainers, Grafana, InfluxDB, Integration & Unit Testing, CI/CD, Evals

Cloud & DevOps: Docker, AWS (EC2, RDS, DynamoDB, Aurora), GitHub Actions, Fly.io, Linux, Infrastructure as Code

Tools: Git, Jira, Confluence, Jupyter, VS Code, Cursor, Claude Code, Navicat

Certifications: Claude Advanced MCP & AI API Building (Anthropic); Python, C, C++ (IIT Bombay); OpenCV (University at Buffalo); Google Data Analytics

PROFESSIONAL EXPERIENCE

Acarin Inc, Evals and Automation Intern Baltimore, MD

Jan 2025 – Present

- Built a real-time observability pipeline (**Docker, InfluxDB, Grafana**) across the team's CI/CD, surfacing p95/p99 latency, error rates, and throughput for an AI-powered HR platform under 20,000 concurrent users; isolated bottlenecks across Keycloak SSO, LLM, and UI-render stages to cut mean time to resolution.
- Shipped an end-to-end BDD automation suite (**Playwright + Cucumber, TypeScript**) on GitHub Actions CI/CD, retiring all manual regression testing across enterprise HR workflows.
- **Integrated Playwright MCP with Claude Code** to auto-discover and patch broken UI selectors on a live browser, cutting new workflow creation from days to hours.
- Modeled multi-step user journeys with k6 (RBAC + AI-assistant flows), exposing LLM timeouts and permission gaps pre-production and feeding failure telemetry straight into an **8-person Agile team's** sprint planning.

RESEARCH & PROJECT EXPERIENCE

[ClubChat](#), a team coordination app for sports clubs (shipped and in daily use)

TypeScript, Node 24, Fastify, Postgres 17, Redis, WebSockets, React Native / Expo, Drizzle, S3, APNs / FCM

- **Shipped a full-stack mobile app** (iOS, Android, and web) that 100+ member clubs now use to run everything they used to juggle in a group chat: workout plans, race sign-ups, rosters, and a shared calendar.
- Built the real-time backend on **Fastify, Postgres, Redis, and WebSockets** that keeps every device in sync, sends push notifications only for messages you haven't read yet, and never loses or double-posts a message.
- **Designed and shipped solo**, from written spec to running app: 116 API routes, a 39-table database, and 631 automated tests.

[AI Portfolio Chat](#) (RAG + Guardrails)

Next.js, TypeScript, OpenAI Embeddings, Neon (pgvector), Upstash Redis, OpenRouter

- Replaced a static system prompt with a **RAG pipeline** (OpenAI embeddings, Neon pgvector, HNSW cosine search, top-k retrieval) grounding a public-facing AI chat in an embedded content corpus.
- Added **input/output guardrails** (jailbreak / prompt-leak detection, length limits) and Upstash Redis sliding-window rate limiting to protect the public endpoint from abuse and prompt injection.

[Interstellar](#), Developer Intelligence Platform

FastAPI, Pydantic, Python, AI Evals, GitHub Actions, REST APIs

- Built an **LLM reasoning engine** comparing Jira ticket intent against live GitHub PR diffs, classifying scope drift by severity and generating structured remediation specs, validated end-to-end against real webhooks, not mocks.
- Designed a **dual-store persistence layer** (Postgres for drift history, Neo4j for engineer/PR/service graphs) with real-time Slack alerting, each layer degrading gracefully so a downstream outage never drops a result.

[Parks's News](#), AI News Aggregation & Newsletter ([Newsletter repo](#))

Next.js, TypeScript, Python, OpenRouter LLM APIs, GitHub Actions, LangChain

- Shipped an **end-to-end AI news platform** (a real-time web app plus an autonomous daily newsletter) aggregating 70+ sources (RSS, Reddit, Hacker News, arXiv, NewsAPI) and using LLM agents to read, rank, and summarize with zero manual curation.
- Ran it as a **serverless, self-healing pipeline** (GitHub Actions cron, no server to maintain) with graceful fallbacks at every failure point; batched LLM calls and 15-minute caching cut multi-source fetch time from ~15s to ~3s.

LEADERSHIP & EXTRACURRICULAR

Course Assistant, Data Structures & Algorithms, Binghamton UniversityJan 2025 – May 2026

- Designed coding problems and test cases; supported students through weekly labs and office hours; partnered with professors to improve project quality.

Association for Computing Machinery (ACM), Member, Binghamton UniversityOct 2024 – May 2026

- Ran weekly data-structures workshops and presented on emerging technologies; paired on coding challenges in pattern recognition and competitive programming.

Google Developer Student Club, Core Member, VIT ChennaiAug 2022 – Jul 2024

- Led operations for a 72-hour zonal hackathon with 1,500+ participants, coordinating venues, judging panels, and sponsor logistics across multiple tracks.