

SAI PRANAVI KASTURI

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EDUCATION

University of Waterloo

Bachelor of Computer Science — 2B

Sept 2024 – Present

Waterloo, Canada

TECHNICAL SKILLS

Python, Java, C++, GoLang, JavaScript, TypeScript, Swift, SQL, Node.js | Spring Boot, Angular, FastAPI, Next.js, SwiftUI | Pandas, NumPy, scikit-learn, PyTorch, Matplotlib, SciPy, ETL, Isolation Forest | LLM, RAG, LangChain, LangGraph, OpenAI API, Gemini API | PostgreSQL, MongoDB, Redis, SQLite, Supabase, pgvector, ChromaDB | Docker, Kubernetes, GitHub Actions, CI/CD, AWS, Azure, Linux, Bash | pytest, Playwright, JUnit, Postman | JWT, OAuth 2.0, REST APIs, Pydantic, WebSockets | Git, JIRA, Confluence, Agile, SDLC, Power BI, Tableau, Excel, Figma

EXPERIENCE

Automation Developer | Zoocasa | Toronto, Canada

Jan 2026 – Apr 2026

- Built **end-to-end test automation** (Playwright, Postman) across **JavaScript** and **GoLang** codebases, establishing **comprehensive regression coverage** that **cut manual QA effort by 60%** and shortened release feedback loops across all product and backend teams.
- Designed, developed, and deployed an **AI-powered compliance tool** (LLM, RAG): natural-language queries over policy documents, **automated structured JSON config generation**, and real-time change notifications—eliminated manual policy review and delivered **actionable outputs** to business stakeholders.
- Performed **root-cause analysis** of production defects across multiple codebases; **reviewed peer code**, debugged systemic issues, and **prioritized fixes that reduced recurring incidents by 47%**. Managed concurrent deliverables using **SDLC** and **Agile** practices (JIRA, sprint planning).

QA Specialist | DocTalk | Toronto, Canada

May 2025 – Aug 2025

- Worked with **business partners** to define and document **1500+ functional requirements** (edge cases, failure modes); produced **test plans** and **traceability matrices** that served as the single source of truth between Product and Engineering for scope, acceptance, and release readiness.
- Architected scalable **test automation infrastructure** covering **1000+ scenarios** across **REST APIs** and application services; performed **unit and system integration testing**—measurable regression coverage with **zero production regressions** on owned features.
- Owned **B2B SaaS** improvements end-to-end: shipped clinician/admin-facing **system enhancements**, resolved application defects, and **synthesized usage insights** across user segments into **actionable recommendations** for stakeholders.

Market Analyst Consultant | Happy Sneeze | USA, Remote

Apr 2024 – Jul 2024

- Developed **automated ETL pipelines** in **Python** and **SQL** to extract, transform, and analyze data across **15+ financial sources**; benchmarked competitive landscape and **generated structured market analyses** that directly informed leadership's strategic and product decisions.
- Built **automated performance reporting** tracking key KPIs (growth rate, market share, segment trends) using **SQL**, **Python**, **Matplotlib**, and **Tableau**—delivered **executive-ready presentations** on tight deadlines.
- Produced **10+ partnership recommendations** with structured outreach narratives; **synthesized complex data** across **10+ sources** into **digestible summaries** and **actionable recommendations** aligned with organizational growth objectives.

PROJECTS

OmenAI | TD Best AI Hack — Gold Sponsor Winner | *Python, scikit-learn, SQL, PostgreSQL, Next.js, Redis* Mar 2026

- Built a real-time **fraud detection** platform ingesting **600K+ trades**: **Isolation Forest** anomaly detection and rule-based **risk scoring** flagged the **top 2%** as high-risk across fraud dimensions with zero labeled ground-truth; shipped live operations dashboard with streaming feeds, radar views, and wallet drill-downs.
- Designed **analytics pipeline** across **12+ signal dimensions** with **sub-second latency**; delivered **executive-ready dashboards** to TD judges—won **Gold Sponsor** at **GenAI Genesis 2026** (TD Best AI Hack).

RefiMatch | *Swift/SwiftUI, FastAPI, Python, LangGraph, pgvector, Kubernetes, pytest, GitHub Actions* Apr 2026

- Architected a monorepo delivering a **SwiftUI iOS 17** client and **FastAPI** backend: **Pandas/NumPy** amortization engine, **LangGraph** multi-agent explanation flow with **RAG** retrieval over **pgvector**, and **Langfuse**-compatible tracing for production observability.
- Shipped **Kubernetes-first** deployment (**4 services**, Kustomize, Redis, Job-based ingestion) and **GitHub Actions CI** running Ruff, pytest, Promptfoo, and DeepEval; **~80 automated pytest cases** across scoring, agent graph, and **30+ REST API** contracts.

Weathwise | *Java, Spring Boot, Angular, TypeScript, PostgreSQL, MongoDB, Docker, JWT* Dec 2025

- Built a full-stack financial application (**Java/Spring Boot + Angular/TypeScript**) with **JWT** authentication, per-user data isolation, and **OLTP/analytics split** across **PostgreSQL** and **MongoDB**—failure-isolated batch processing with **95%+ job** success rate.
- Deployed containerized MVP (**Docker Compose**, health checks, reverse-proxied SPA) with documented **REST APIs** and automated tests on auth and aggregation—**zero data integrity issues** across all financial operations.

EXTRACURRICULARS

Events Director | UW Product Management Club | Waterloo, Canada

Sept 2025 – Dec 2025

- Led E2E event planning and execution for UW PMC — coordinated logistics, sponsors, venues, and attendee experience across multiple stakeholders while independently managing competing deadlines.
- Delegated tasks, developed clear communications, and drove post-event follow-up with high attention to detail; collaborated with marketing to lift attendance and build cross-functional alignment.

Campus Ambassador | Velocity | Waterloo, Canada

Sept 2025 – Dec 2025

- Managed event-day operations end-to-end (check-in, supply distribution, wayfinding, attendee support) and adapted quickly to real-time changes in a fast-paced environment.
- Promoted startup and tech programs through social media campaigns; synthesized messaging for diverse audiences to drive community engagement across campus.

CERTIFICATIONS AND AWARDS

- LinkedIn **Data Analysis Certification** | **AWS Beginners** | **Postman API Fundamentals** | Won **Gold Sponsor** — **TD Best AI Hack** (Fraud Detection) at **GenAI Genesis 2026**