

PRASHANT SHAH

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EDUCATION

Ramapo College of New Jersey

B.S. Data Science & Computer Science, Minor in Mathematics | GPA: 3.8/4.0

Recognitions: Best Research Award, ICPC NY Honorable Mention, Presidential Scholarship

Mahwah, NJ

May 2026

EXPERIENCE

Data Engineer (Contract)

Sep 2025 - Present

Center for Food Action

Mahwah, NJ

- Built a Flask/PostgreSQL operations data platform integrating barcode scans, UPC/price lookup services, donor/storage records, and PantrySoft handoffs into validated intake and receive datasets. Featured in Ramapo News and News 12 NJ.
- Modeled receive sessions, item mappings, donor sync, local UPC cache, price fields, and reporting exports with SQLAlchemy/PostgreSQL so messy donation intake became queryable inventory and pricing data.
- Implemented blocked-export states, reconciliation queries, dry-run preview workflows, and Playwright/API checks to stop bad mappings or quantities before records moved into PantrySoft.

Software Engineering Intern, Business Analytics

Jun 2024 - Aug 2024

Novartis Pharmaceuticals Corporation

East Hanover, NJ

- Built PostgreSQL data models and Azure Functions workflows to normalize project, budget, approval-status, and team-allocation data across 100+ internal initiatives, turning spreadsheet-heavy tracking into governed reporting tables in a regulated pharmaceutical environment.
- Delivered Power BI/Tableau views, data-quality checks, and refreshable reporting workflows that reduced a recurring 2-day clinical operations workload while giving stakeholders clearer budget, staffing, and project-status visibility.

Data Analyst

Aug 2023 - Jan 2026

Ramapo College of New Jersey

Mahwah, NJ

- Cleaned and standardized 6,000+ student records from enrollment, survey, and institutional sources; wrote validation rules, reconciled missing/duplicate fields, and improved collection processes and data accuracy by 40%.
- Applied statistical and predictive analysis to enrollment and retention data, improved at-risk student capture by about 15%, automated weekly reports, and translated dashboards into targeted student-support decisions for administrators.

Research Assistant - Retrieval Data Systems (Link)

May 2025 - May 2026

Ramapo College of New Jersey

Mahwah, NJ

- Built a KRAG data pipeline over MovieLens 25M with User, Movie, and Emotion nodes, weighted EVOKES edges, graph/text ranking, and Sentence-BERT aligned retrieval features.
- Ran ablations on emotion-edge removal and Graph Transformer ranking under content-intent dissonance, showing emotion edges were about 2.3x more necessary when topical similarity alone failed.

Software Engineering Intern

May 2025 - Aug 2025

Trimble Inc.

Princeton, NJ

- Integrated service-configuration data across TMW Suite, environment databases, internal APIs, and authentication boundaries so distributed configuration streams became visible and editable in one workflow.
- Built C# .NET components, REST APIs, SQL validation queries, and Azure authentication tooling to catch multi-environment data conflicts before downstream support issues.

PROJECTS

Atlas LMS - AI-native learning platform (Link)

- Won HackRamapo 2026 with a Vercel AI SDK course-data agent whose typed tools run parameterized SQL over a Canvas-modeled PostgreSQL schema, never model-generated SQL.
- Architecting Atlas as a multi-tenant Next.js/PostgreSQL platform with Drizzle, Auth.js, pgvector memory, live ETL for courses, assignments, and deadlines, and organization-scoped data.

SKILLS

Languages: Python, SQL, C#, TypeScript, JavaScript, Java, C/C++, Bash

Data Engineering: PostgreSQL, MySQL, SQLite, SQLAlchemy, ETL, data modeling, validation, reconciliation, reporting exports

Cloud/Platforms: Azure, Azure Functions, AWS, Vertex AI, Docker, Linux, GitHub Actions, pgvector

Analytics/BI: Power BI, Tableau, dashboards, retention analytics, pricing, inventory, service-trend reporting

Backend/Quality: REST APIs, Flask, FastAPI, .NET, Playwright, Selenium, pytest, API contracts, CI/CD