PRIYA SISODIA

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EDUCATION

University of Minnesota-Twin Cities   **Sep. 2022-Dec. 2025**
Bachelor of Science, Computer Science   *Minneapolis, MN*
- **Cumulative GPA:** 3.7/4.0 [Dean's List Award: Spring 2025, Fall 2024, Spring 2024, Fall 2023, Spring 2023]
- **Coursework:** *DSA, Software Engineering, Database Systems, Operating Systems, Internet Programming, AI, ML Essentials*

EXPERIENCE

Test Engineering Intern, IDeaS Revenue Solutions   **May 2025-Aug. 2025**
- Built RESTful APIs in **Java** for 7+ **AWS-hosted microservices** (e.g., pricing, analytics), integrating **SQL**/**MongoDB** validations and **Datadog**-based telemetry; authored JUnit and Postman test suites for automation.
- Participated in **Agile** Software Development Life Cycle processes, resolving 20+ production issues through root-cause analysis and regression testing, boosting service reliability by 30%.
- Enhanced **CI/CD** pipelines via **GitHub Actions** and **Terraform**; integrated dashboards using **Datadog** and **AWS CloudWatch** to monitor 25+ deployments and infrastructure.

Computer Science Teaching Assistant, University of Minnesota   **Sep. 2023-Present**
- Delivered one-on-one and lab support to 100+ students per semester across **Python**, **Java**, and **computational linear algebra**, improving student confidence and academic performance across **3+ sections**.
- Designed lab exercises and statistical analyses using **Google Colab**, **NumPy**, and **matplotlib**, supporting instructional delivery for 300+ assignment submissions.
- Automated **600+ assessments** grading using **Gradescope** and **Bash**, enabling faster turnaround and feedback cycles by **20-30%**.

Software Design Engineer Intern, KEB America, Inc.   **May 2024-Aug. 2024**
- Refactored 1,500+ lines of monolithic **Python 2.0** code to modular client-server architecture in **Python 3.12**, boosting maintainability and testability.
- Designed black-box and integration test suites in **Python** and **C#** for 10+ embedded features; increased automated test coverage by 40% and reduced manual QA effort by 25%.
- Collaborated with cross-functional teams using **GitLab**, **Jira**, and **Confluence** to track and resolve 50+ development and QA tickets across software lifecycle stages.

Residence Halls Office Assistant, University of Minnesota   **Jan. 2023-May 2025**
- Managed check-ins/outs, key tracking, and front-desk operations for **700+ residents** while responding to daily service needs.
- Maintained organized records for **100+ lost-and-found cases** and **1000+ item loans** through spreadsheets and check-out databases.

Orientation Leader, University of Minnesota   **Apr. 2023-Sep. 2023**
- Led daily orientation groups of **15–20 new students** through campus tours, presentations, and community-building activities.
- Helped **7,000+ students** by supporting orientation events and assisted **350+ volunteers** with training, coordination, and support.

PROJECTS

Distributed Cache System | *Python, Git*   **Aug. 2025 - Present**
- Implemented a production-grade distributed caching system using **consistent hashing** for automatic data distribution across nodes, achieving **1.07M+ hash ring operations/second** with **0.0009ms latency** and **23% data movement** when scaling.
- Built HTTP-based cache nodes with RESTful APIs, TTL support, and thread-safe in-memory storage, delivering 649 writes/second and 674 reads/second with **100% hit rate** for cached data.
- Designed smart client library with automatic request routing, **fault tolerance**, and **replication support**; demonstrated **node failure recovery** and **graceful degradation** in multi-node cluster scenarios across **5 comprehensive demo workflows**.

Drone Delivery System Simulation | *C++, Docker, Git*   **Oct. 2024 - Dec. 2024**
- Developed a modular drone logistics system in **C++** supporting multi-agent coordination (drones, helicopters, humans, packages), built on **Factory** and **Singleton** design patterns using Dijkstra's algorithm for route optimization and dynamic scheduling.
- Implemented a smart battery scheduling system that reduced idle time and improved uptime in 20+ delivery scenarios.
- Led a **4-member Agile** team across **6 sprints** via **Jira**, incorporating Google C++ standards, 10+ code reviews, and Google Test (gtest) for unit testing.

SKILLS

Programming Languages: Python, Java, C, C++, C#, Go, SQL, Bash
Systems & Cloud: Docker, Linux/Unix, AWS (EC2, S3, Lambda, SNS, Glue, Athena, Kafka), Terraform, GitHub Actions, Git
Databases & Web: MySQL, MongoDB, REST APIs, JavaScript, HTML/CSS
ML/AI: TensorFlow, PyTorch, scikit-learn, NumPy, Pandas, matplotlib
QA, Practices & Tools: JUnit, Postman, Selenium, TestNG, CI/CD, Agile, TDD, DevOps, Telemetry, Datadog, Jira

EXTRA-CURRICULAR

Code The Gap, UMN-Twin Cities   **Jan. 2023-Present**
Treasurer   *Minneapolis, MN*
- Managed budgets and operations enabling 30+ volunteers to teach Python to K–12 students, expanding outreach to 3 new schools.