

ABISHEK KUMAR GIRI

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EDUCATION

Stockton University

Galloway, NJ

Bachelor of Science Computer Science

September 2022 - May 2026

- Coursework: Data Structures & Algorithms, Linear Algebra, Probability & Statistics, AI, Database Systems

PROJECTS

ReleaseGate: Jira-Native Release Governance Engine | ([Link](#))

Python, FastAPI, PostgreSQL, Redis, SQLAlchemy, Atlassian Forge, GitHub API

January 2026

- Built a Jira-native release governance engine enforcing versioned YAML policies with deterministic allow/deny decisions, immutable policy snapshots, and separation-of-duties checks.
- Designed tamper-evident audit infrastructure with signed checkpoints, append-only evidence graphs, and offline-verifiable proof packs; validated with 281 automated tests.

ShardDB: Distributed Transactional Key-Value Store | ([Link](#))

Go, Raft, 2PC, net/rpc, Snapshotting

November 2025

- Built a fault-tolerant distributed key-value store in Go using custom Raft consensus, sharded replication, 2PC transactions, and snapshot-based log compaction.
- Developed a Jepsen-style chaos harness and linearizability checker to verify correctness under node crashes, network partitions, leader churn, and snapshot recovery.

MIDAS Ledger: Concurrency-Safe Financial Ledger | ([Link](#))

Python, FastAPI, PostgreSQL, SQLAlchemy

December 2025

- Built a financial ledger implementing double-entry accounting, atomic transfers, idempotent APIs, and immutable audit logs using PostgreSQL transactions and row-level locking.
- Verified correctness under concurrent load with invariant-based stress tests covering transfers, refunds, and replay safety, and failure handling without state corruption.

OPEN SOURCE CONTRIBUTIONS

GitHub, Python, Go, TypeScript, Java

March 2026

- Contributed merged fixes and documentation improvements to iii-hq/iii, including fixes to SDK package references, module callouts, and skills documentation updates.
- Submitted pull requests to public repositories including OpenSearch, Bazel, Kubernetes, FastAPI, GraphQL.js, Dapr, and Appwrite, covering validation, correctness, and runtime behavior issues.

EXPERIENCE

Math Tutor | Stockton University

September 2022 - May 2025

- Tutored 40 college students in calculus, linear algebra, and statistics through small-group sessions, breaking down technical concepts into step-by-step problem-solving approaches.

Resident Assistant | Stockton University

August 2023 - May 2026

- Supported a 132-resident community by handling conflicts, policy issues, and students' concerns in a fast-paced, high-responsibility environment.

TECHNICAL SKILLS

- Languages: Python, Go, JavaScript, TypeScript, Java, SQL, Bash
- Frameworks: FastAPI, React, Next.js, Tailwind CSS, SQLAlchemy
- Databases/Storage: PostgreSQL, SQLite, Redis, MinIO, S3
- Systems/Data: Raft, Two-Phase Commit (2PC), WAL, Snapshotting, Spark, Trino, Apache Iceberg
- Tools: Docker, Docker Compose, Git, GitHub Actions, Prometheus, OpenTelemetry
- AI/ML: OpenAI API, Gemini API, Tesseract OCR, LLM-based extraction