

PARTH ROHIT

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Final-year BSc (Hons) Computing Systems student (Dean's List) with hands-on experience developing cloud-native applications, distributed systems, backend services, and open-source software using Python and TypeScript. Strong foundation in software engineering, system design, testing, and deployment demonstrated through academic and open-source projects.

PROJECTS

LYTA - Stateful AI Workspace (TypeScript, Cloudflare Workers, Durable Objects) | 2026 | [Demo](#) | [GitHub](#)

- Built a stateful AI workspace using Cloudflare Durable Objects to manage persistent user sessions.
- Developed backend services for chat persistence, file processing, and retrieval-augmented responses.
- Implemented real-time streaming and conversation memory using Server-Sent Events.
- Designed isolated workspace and conversation boundaries to support concurrent user interactions.

FieldSight - Cloud-Native Multimedia Platform (Azure, Node.js, Cosmos DB, Blob Storage) | 2026 | [GitHub](#)

- Built a cloud-native multimedia platform using Azure App Service, Cosmos DB, and Blob Storage.
- Developed REST APIs with validation, error handling, and centralized data management.
- Implemented monitoring and telemetry using Azure Application Insights for performance tracking.
- Automated deployments using GitHub Actions CI/CD and evaluated cloud scalability trade-offs.

KALYX - Execution Integrity Platform (Python, FastAPI, Hash-Chained Ledger) | 2026 | [GitHub](#)

- Built an execution integrity platform using FastAPI and a hash-chained ledger for auditability.
- Developed concurrent-safe ingestion pipelines with validation, canonical hashing, and file locking.
- Implemented backend APIs supporting verification, checkpointing, and audit workflows.
- Created automated tests covering integrity validation, corruption detection, and API behaviour.

OpenShield (OWASP) – Open-Source Azure CSPM Platform | Python, Azure, Flask | [GitHub](#)

- Contributed to an OWASP open-source platform for Azure security assessment and compliance validation.
- Developed Azure security scan rules and remediation workflows for cloud misconfiguration detection.
- Validated scanner accuracy using intentionally vulnerable Azure storage, network, and identity resources.
- Performed end-to-end testing across detection, API, database, and dashboard components.

SKILLS

Languages: TypeScript, Python, Java, SQL

Software Engineering: Object-Oriented Programming, REST APIs, Testing, Data Structures, Algorithms

Frameworks & Libraries: Angular, FastAPI, Flask

Cloud & Platforms: Azure, Cloudflare Workers, Durable Objects, Workers AI

Databases: MongoDB, MySQL, SQLite, Cosmos DB

Development Practices: Agile, Scrum, Kanban, CI/CD, GitHub Actions

Tools: Git, Postman, Vitest, JUnit

WORK EXPERIENCE

Operations & IT Support Assistant

Kukreja & Associates (Advocacy Firm), Vadodara, India | July 2021– Dec 2023

- Automated internal operational workflows, reducing manual administrative effort by 10+ hours per month.
- Provided IT support across systems, networking, software, and hardware environments for 50+ users.
- Diagnosed technical issues, resolved system faults, and improved operational reliability through process improvements.

EDUCATION

University of Ulster, London, UK

BSc (Hons) in Computing Systems | Expected Sep 2026

Dean's List – Academic Excellence (Years 1 & 2)