

PARTHROHIT

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PROJECT EXPERIENCE

PARTHA - Repository intelligence platform (Python, FastAPI, React, PostgreSQL, Redis, Docker) | [GitHub](#)

Independent project | React interface, FastAPI services, durable work and small-team delivery

- Gives engineers a reusable source of truth for an unfamiliar codebase.
- Uses a React interface and FastAPI services around source-linked facts, keeping outputs checkable.
- Runs durable, cancellable analysis with bounded retry and stale-worker recovery, discarding partial facts after failure.
- Leads weekly planning for a small team, turning shared priorities into a practical delivery roadmap.

OPENSHIELD - Azure security posture management (Python, Flask, PostgreSQL, React) | [GitHub](#)

OWASP-hosted open-source project | Test maintainer with write access

- Gives smaller Azure teams a usable security posture and remediation path when commercial CSPM tooling is out of reach.
- Serves as Test maintainer with write access on an OWASP-hosted security project, reviewing its test suite and documentation.
- Defined branch-protection rulesets and added CI auditing of effective policy drift.
- Changed compliance scoring so unreviewed or incomplete evidence is not reported as a passing security posture.

KALYX - Execution evidence integrity (Python, FastAPI, Angular, Raspberry Pi) | [GitHub](#)

Academic dissertation | Deterministic verification, API and operations-console evidence

- Answers a real question: after a breach, were the logs modified, deleted or reordered first.
- Each record hashes into the one before it, so an edited or deleted entry breaks a checkable chain.
- Verified checkpoints anchor to an independent Raspberry Pi, so tampered local history cannot silently pass unnoticed.
- Detection is deterministic and rule-based by design, not ML, so every alert is explainable.

FIELDSIGHT - Biodiversity field-record API (Node.js, Express, Azure, Cosmos DB, Blob Storage) | [GitHub](#)

Academic cloud backend project | Azure deployment, API security, telemetry and delivery

- Lets field researchers capture photo-backed observations in a searchable record.
- Runs an Express REST API on Azure App Service, with Cosmos DB metadata, Blob Storage and Application Insights.
- Deploys through GitHub Actions and Kudu ZipDeploy while documenting small-workload cost tradeoffs.
- API key comparison uses a timing-safe check, closing an attack class most graduate projects overlook.

TECHNICAL SKILLS

Full-stack development: Python, TypeScript, JavaScript, React, Angular, Node.js, Express, FastAPI, Flask and REST APIs.

Data and cloud: PostgreSQL, MongoDB, Cosmos DB, SQL, Redis, Azure App Service, Blob Storage, Application Insights and JSON.

Quality and delivery: Git, GitHub Actions, pytest, Vitest, Playwright, CodeQL, CI/CD, Docker, code review and release documentation.

Engineering practice: API validation, data modelling, role-based access, system troubleshooting, technical documentation, backlog planning and team delivery.

PROFESSIONAL EXPERIENCE

Operations & IT Support Assistant | Kukreja & Associates, India | September 2022 to October 2023

- Supported more than 50 users across hardware, software, network and internal-system issues.
- Investigated day-to-day technical requests and translated unclear problems into practical fixes.
- Automated recurring internal work, removing more than 10 hours of manual effort each month.

EDUCATION AND ADDITIONAL INFORMATION

Ulster University, London, UK

BSc (Hons) Computing Systems | Awarded September 2026 | First Class Honours

Awards & recognition: QA Ltd Best Computing Project Award (won at university tech fest), 2026 | Dean's List, Years 1 and 2

Certifications: Oracle Agentic AI Certified Foundations Associate, 2026

Availability: Immediate start for full-time roles, based in London.

Leadership & contribution: Student Representative and SSCC member throughout his degree (January 2024 to September 2026), raising student concerns and contributing to module and programme discussions.

Mentoring: Taught 15+ peers practical AI workflows and development practices, and delivered workshops for first-year international students on settling into UK study, ethical AI use, academic integrity, GitHub, LinkedIn and open-source contribution.