

# Pratik Pun

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## PROFILE

Software Engineer with experience building and operating Python-based backend services and data-processing workflows in production environments, with a strong focus on reliability, observability, and secure system integration. Comfortable working on end-to-end features in small, high-ownership teams, from API design to delivery and monitoring. Motivated by applying reliable, security-conscious engineering practices to complex, regulated problem spaces, and collaborating closely with technical and non-technical stakeholders to deliver real-world impact.

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## WORK EXPERIENCE

**Sky (via Digital Futures) | London**

**Sept 2023 - Nov 2025**

### Associate Software Engineer

- Built and operated Python-based backend APIs and automation pipelines for distributed network systems, supporting continuous production workloads and reducing manual configuration time by ~40%.
- Designed and refined RESTful APIs with OpenAPI, contributing to API boundaries, schema design, and validation rules to ensure reliable integration between distributed internal systems.
- Collaborated with frontend engineers to support and refine UI features consuming backend APIs, improving data reliability and reducing integration issues in user-facing tools.
- Developed asynchronous and parallelised Python scripts for data validation and automation workflows, improving execution speed and responsiveness.
- Created proof-of-concept tools for network configuration and automation, rapidly iterating prototypes into functional demonstrators used across engineering teams.
- Refactored automation logic using TDD (Pytest), introducing automated test suites that improved reliability, reduced regressions, and maintained 90%+ coverage across key services.

**Digital Futures | London**

**Jan 2023 – Aug 2023**

### Software Engineering Trainee

- Delivered production-ready full-stack web applications from client briefs, owning requirements, implementation, testing, and delivery within Agile sprints.
- Led a small project team using GitHub for version control, code reviews, and conflict resolution to maintain quality.
- Built React-based user interfaces consuming REST APIs, implementing responsive layouts and reusable components as part of full end-to-end feature delivery.
- Implemented unit tests with Jest, ensuring functionality, stability, and clean, maintainable code throughout development.

## TECHNICAL SKILLS

**Languages:** Python, Java, TypeScript/JavaScript, SQL

**Backend & APIs:** RESTful APIs, Flask, FastAPI, Express.js, OpenAPI/Swagger

**Databases & ORMs:** MongoDB, MySQL, PostgreSQL, SQLAlchemy, TypeORM

**Automation & Scripting:** Python asyncio-based scripts, Bash, GitLab CI/CD

**Testing & Quality:** Pytest, Robot Framework, Jest, TestRail, TDD, debugging, documentation (Confluence)

**Observability:** Kibana, Grafana

**Frontend:** React, React Native

**Practices:** Agile development, clean code, proof-of-concept development, AI-assisted development tools used to support code quality and documentation, version control (Git/GitHub)

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## EDUCATION

**Graduated 2022**

### Swansea University

BSc (Hons) Computer Science

#### Dissertation: Gurkha One (mobile application)

- Built an end-to-end mobile application from scratch, owning product requirements, architecture, implementation, and iteration based on feedback, using React Native, Express, TypeScript.
  - Designed relational data models with TypeORM and MySQL, implementing CRUD workflows and query patterns to support core user journeys.
  - Designed REST APIs, authentication with JWT/bcrypt, and email integrations (Nodemailer).
  - Delivered end-to-end development including requirements, iterative builds, testing, and stakeholder feedback. [GITHUB](#)
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## CERTIFICATIONS & INTERESTS

### CERTIFICATION & TRAINING

Java Certified Foundations Associate, Agile Explorer, IBM & MongoDB AI Seminar Badges, Internal Sky Network Training (Easy, Insider, Deeper Guides)

### INTERESTS

#### Football

Play weekly in the East Berkshire League; strong interest in competitive sports and data-driven performance

#### Cars

Enjoy exploring mechanical systems and small DIY repairs. I love understanding how things work end to end.

#### Technology

Fascinated by how reliable technology and data can improve everyday life.