

Harvey Bellini

Backend Software Engineer | Python, Django, PostgreSQL

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WORK EXPERIENCE

Kraken Technologies

Software Engineer I

Sep 2025 – Present

London, UK (Hybrid)

Python/Django backend development for Link, Kraken's electricity settlement platform.

- Eliminated timeouts in a data view spanning approximately **26 million records** by replacing full-table counts with lazy pagination; added PostgreSQL indexes to accelerate common filters.
- Reclaimed approximately **1.43 TB of production PostgreSQL storage** across two estates by identifying and safely removing 11 redundant indexes.
- Implemented and tested **multi-tenant SSO for two organisations** using OIDC, Okta and django-allauth, with a custom provider and automatic email-domain routing.
- Blocked approximately **483,000 invalid data updates per month** across two enterprise clients by adding validation before submission to downstream systems.
- Prevented migration-related billing failures by correcting overlapping meter dates and preserving required fields; built **bulk repair tooling with dry-run support** for affected records.
- Fixed missing-timestamp handling in meter-reading validation, resolving a defect responsible for **3.7 million application errors**; added regression tests and diagnostic logging.

VirtualSpeech

Junior Software Engineer

Nov 2024 – Sep 2025

Remote, UK

- Built **Python/Django REST APIs** powering AI-driven roleplay in VR applications, working with VR developers to integrate backend services.
- Integrated external documents into AI roleplay scenarios through **file ingestion and processing**, with frontend features in JavaScript, HTML and CSS.
- Managed **AWS infrastructure** for the VR platform and optimised its SQL databases.

Exeter Entrepreneurs

Workshop Leader

Sep 2022 – Dec 2022

University of Exeter

- Designed and taught a **10-week Python course** for university students, covering programming fundamentals.

PROJECTS

CoLab Exeter | Mental Health System

Sep 2023 – Sep 2024

- Led a **team of six** to build a Django mental health application for an Exeter charity, translating client requirements into features and deploying the system on Google Cloud.
- Migrated the application from Google Cloud to **DigitalOcean with zero downtime**.

Manchester City Football Club | F-Vision

Jun 2023 – Aug 2023

- Built an internal **3D tool in Python and Three.js** using club-provided data during a 10-week project.
- Demonstrated the solution to a judging panel including the club's Head of Technology at the Etihad Stadium.

EDUCATION

University of Exeter

MSci Computer Science (2:1)

Sep 2020 – Jul 2024

Exeter, UK

SKILLS & INTERESTS

Backend & Data: Python, Django, FastAPI, PostgreSQL, SQL, Redis, REST APIs

Cloud & Delivery: AWS (EC2, S3, SQS), Docker, Kubernetes, GitHub Actions, Linux, Git

Testing & Operations: pytest, CI/CD, Datadog APM, Sentry

Web & Authentication: JavaScript, TypeScript, HTML/CSS, OIDC, OAuth, Okta, django-allauth

Interests: Football, motorsport, consumer electronics, gaming