

Toby Griffiths

Junior Backend Developer



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Computer Science graduate from the University of Bristol with a summer internship at **Funding Circle**. Contributed to the loan origination API (Python/FastAPI) and wrote endpoints handling **3,200 requests per hour**. Deployed a side project API serving **1,200 requests per day** on a VPS. Contributed **2 merged PRs** to open source projects with 3,400+ GitHub stars. GitHub: github.com/tobygriffiths-dev.

■ EXPERIENCE

Backend Developer Intern (Summer), Funding Circle, London

Jun 2024 – Sep 2024

Summer internship in the lending platform team, working on the loan origination API.

- Built **5 new REST API endpoints** in Python (FastAPI) for the loan application workflow, handling **3,200 requests per hour** at peak
- Achieved **97% test coverage** on all new code using pytest, with integration tests running against a staging database
- Optimised a loan eligibility report query that ran in **8 seconds, reducing it to 400ms** by rewriting the ORM calls and adding database indexes
- Participated in code reviews, daily stand-ups, and fortnightly sprint retrospectives with a team of **6 engineers**

Teaching Assistant (Part-time), University of Bristol, Department of Computer Science, Bristol

Sep 2023 – May 2024

TA for the second year Databases and Cloud Computing module.

- Ran lab sessions for **40 students**, helping with SQL queries, database design, and AWS deployment exercises
- Marked **80 coursework submissions** on database normalisation and query optimisation

■ EDUCATION

BSc (Hons) Computer Science in Computer Science, University of Bristol, Bristol

Sep 2022 – Jun 2025

First Class Honours (1st, **72% average**). Dissertation on *building a high-throughput event processing pipeline in Go* received **78%**.

- Relevant modules: Algorithms, Databases, Distributed Systems, Software Engineering, Web Technologies, Cloud Computing

■ SKILLS

Python (FastAPI, Flask) • Go (net/http, goroutines) • PostgreSQL & Redis • REST API Design (OpenAPI) • Docker & Docker Compose • AWS (EC2, RDS, S3, Lambda) • Git & GitHub (PR workflows) • CI/CD (GitHub Actions) • Linux (Ubuntu, systemd, Nginx) • Testing (pytest, Go testing) • SQL Query Optimisation • Message Queues (RabbitMQ basics)

■ CERTIFICATIONS

AWS Cloud Practitioner, Amazon Web Services

Dec 2024 – Dec 2027

freeCodeCamp – Back End Development and APIs, freeCodeCamp

Jun 2023 – Jun 2023

■ LANGUAGES

English - Native

■ PROJECTS

BookSwap API (Side Project, Deployed)

Jan 2024 – May 2024

A REST API for a book-swapping platform, built in Python (FastAPI) and deployed on a Hetzner VPS.

- Serves **1,200 requests per day** from a small community of 180 registered users
- PostgreSQL database with **12 tables**, full migration history using Alembic
- Automated deployment with **GitHub Actions** (build, test, deploy) triggered on push to main

Open Source Contributions

Jun 2024 – Mar 2025

Contributed to two popular open source Python projects.

- Merged **1 PR in FastAPI** (67,000+ stars) fixing a WebSocket disconnect edge case affecting async handlers
- Merged **1 PR in httpx** (3,400+ stars) adding retry logic for transient connection errors
- Both contributions included **unit tests and documentation updates**

■ REFERENCES

Hannah Price, Engineering Manager, Funding Circle, hannah.price@fundingcircle.com, +44 7700 900 582

■ EXTRA CURRICULAR ACTIVITY

Committee Member – Bristol CompSoc

Sep 2023 – Jun 2025

Organised **6 hackathons** and weekly coding workshops. Secured sponsorship from Bloomberg and Arm for the annual 24 hour hackathon attended by **80 students**.

Mentor – Bristol Code Club (Primary Schools)

Jan 2024 – Jul 2024

Volunteered weekly at a primary school in Redland, teaching **20 children** (ages 9 to 11) basic programming concepts using Scratch and Python Turtle.