



ASHLEY FLETCHER

Software Developer

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Languages

- German - B2 (Speaking), B1 (Writing)
- English - Native

Programming Languages

- Java – good knowledge
- Kotlin – good knowledge
- C – very good knowledge
- C++ – good knowledge
- TypeScript – solid knowledge
- Python – basic knowledge

Frameworks & Tools

- Spring Boot – very good knowledge
- Ktor – good knowledge
- Vue.js – good knowledge
- React Native – solid knowledge
- Docker – practical experience
- PostgreSQL – good knowledge
- Flyway – good knowledge
- REST / OpenAPI – good knowledge
- Git – very good knowledge
- CI/CD – good knowledge

Profile

Software developer with a strong foundation in **C/C++, Java** and **Kotlin**. Hands-on learning mindset shaped by the project-based 42 model: picking up new knowledge quickly, applying it in a structured way, and implementing it directly in real projects. Experience in **full-stack development**, data pipelines, REST/OpenAPI and CI/CD.

WORK EXPERIENCE

Full-Stack Developer (Internship)

02/2025 - 07/2025

Schwarz IT

Weinsberg, Baden-Württemberg

- Delivered two complete end-to-end features (importer, backend logic, **REST/OpenAPI**, AG Grid UI)
- Implemented 10+ improvements in filtering, sorting, data models and import processes
- Increased test coverage of core modules from **~50% to 80%**
- Built **parquet-based data pipelines** and implemented transformations for PostgreSQL
- Developed and optimized dynamic Vue.js/TypeScript frontends
- Presented a Sprint Review **independently**; close collaboration with Product Owners

Additional Work Experience

Warehouse Associate – ML Medien GmbH, Nürnberg 11/2020 – 06/2023

Freelance Videographer – Nürnberg 03/2021 – 12/2022

Warehouse Associate – Europa-Park Resort, Rust 04/2019 – 11/2020

Agricultural Worker – LeaderBrand, Neuseeland 02/2018 – 01/2019

Agricultural Worker – Agromillora, Australien 02/2017 – 09/2018

Lifeguard – Places Leisure, Burgess Hill (UK) 07/2013 – 09/2016

EDUCATION

42 Heilbronn

10/2023 - Present

Software Engineering Program

Project-based curriculum with a focus on C/C++, algorithms, systems programming, web development and team projects.

Lewes College (UK)

09/2011 – 06/2013

BTEC Level 3 Business (equivalent to A-Levels)

Focus on business fundamentals and practical project-based work, providing experience in structured planning and processes in business.

Certificates

LinkedIn Learning

11/2025

Test-Driven Development in Spring Boot (JUnit & Mockito)

LinkedIn Learning

10/2025

Spring Security (Spring 6)

CodeSignal

10/2025

Introduction to Spring Boot & Spring Core

Codecademy

10/2025

Learn Spring (Spring Framework & Spring Boot)

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Personal Strengths

- Learns through hands-on practice
- Structured working style
- Solution-oriented & pragmatic
- Reliable in collaboration
- Clear and open communication

Working Style

- Hands-on & implementation-oriented
- Analytical approach
- Strong team orientation
- Quickly adapts to new topics

Technical Interests

- Web development
- Web Security
- Microservices
- Clean Code

Interests

- Marathon running
- Hiking
- Photography / Video

Driving License

- Class B

Selected Projects

FriendSpace – Java / Spring Boot, React Native

Full-stack social app for verified user activities.

- Java/Spring Boot backend with PostgreSQL and Flyway
- **5+ Flyway migration scripts**
- JWT authentication implemented; microservices planned
- QR-based event and user verification
- React Native frontend with OpenAPI SDKs
- **5+ REST endpoints** for authentication, profiles and friend logic, designed with clear separation of responsibility

Webserver – C++ (42 School)

HTTP server with multiplexing.

- Parallel processing of 100+ simultaneous connections via kqueue()
- Supports **GET, POST** and **DELETE** methods
- Non-blocking event-loop architecture with efficient socket handling
- Implemented default error pages and accurate HTTP status codes to ensure predictable client behaviour

Transcendence – Django & JavaScript (42 School)

Full-stack multiplayer Pong game built with Django and JavaScript.

- REST API with **JWT** and WebSocket support
- Interactive JS frontend with **dockerized** backends
- Real-time synchronization tested for 50+ clients
- 7+ technical modules implemented (live chat, remote play, AI, 2FA/JWT, etc.)

Hackathons

ETH Brussels Hackathon 2024

Development of a Web3 journalism platform

UI/UX Design Heilbronn (Schwarz IT) 2024

Team-based design project

Future City Hackathon Heilbronn 2024

Smart-city concept development

References

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Schwarz IT - Department Lead

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