

# CHARLES PAYNE

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## PROFILE

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Software Engineer with a strong foundation in cybersecurity and hands-on experience in backend development. Previously worked as an Ethical Hacker and Cyber Security Consultant, where I honed my problem-solving and research skills. Graduated from Belgium Campus ITversity with a Bachelor's in Computing, specializing in Software Engineering. Actively pursuing continuous learning through Udemy and Coursera. Excited to contribute to software engineering teams, and eager to further develop my skills through projects.

## EXPERIENCE

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### Cyber Security Consultant

February 2022 - 2023

*MWR CyberSec, Sandton*

- Conducted vulnerability assessments and penetration tests for a range of client applications.
- Delivered in-depth security reports with recommended solutions, which clients implemented to secure their applications.
- Kept clients informed throughout assessments using various communication channels, helping build trust and transparency.

### Software Developer

2023 - Present

*Personal Projects*

- Built REST APIs using Go and modern practices.
- Developed a Go SDK for the cTrader platform, handling WebSocket communications and integrating Google Protobuf, enabling more efficient API usage.
- Implemented secure user authentication and payment integration
- Applied OWASP security best practices

## EDUCATION

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### Belgium Campus ITversity

2019-2024

Bachelor of Computing, Specializing in Software Engineering

Electives: Machine Learning, Internet of Things, Business Management

Distinctions in 40 subjects, Average Grade: 81.1%

### High School Overkruin

2014-2018

National Senior Certificate

### Additional Learning

- **Udemy Course - Backend Engineering with Go**

2024

Instructor: Tiago Taquelim

- **Coursera Specialization - University of Alberta**

2024

Software Design and Architecture, including Object-Oriented Design, Design Patterns, and Service-Oriented Architecture

## PROJECTS

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## Social API

October 2024

*Personal Project*

Built a backend API for blog post creation, user authentication, and SMTP-based account activation, designed for frontend compatibility. Code available on [GitHub](#)

## Ecommerce Store API

September - October 2024

*Personal Project*

Built a backend API for an online store, handling user accounts, shopping cart operations, payments, product listings, and reviews. Designed to integrate with any frontend systems. Code available on [GitHub](#)

## CTrader-go-sdk

July 2024

*Personal Project*

Built a Golang SDK for the cTrader OpenAPI, simplifying API usage for developers by managing connections, handling callbacks, and providing a full-duplex websocket connection with custom message routing. This SDK enables developers to focus on project development rather than API integration complexities.

## SKILLS

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**Technical Skills:** Go, Python, SQL

**Core Areas:** Rest APIs, Backend Development, Software Design Patterns, Cybersecurity

**Soft Skills:** Client Communication, Report Writing