

# Sebastian Gabriel Savu

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## EDUCATION

### University of Birmingham

October 2019 - June 2022

- Computer Science BSc: First Class Honours

### Grigore Moisil National College of Computer Science

Sept 2013 - June 2017

- Diploma de bacalaureat: 9.3/10 (Advanced Mathematics and Computer Science)

## EXPERIENCE

### SGX FX

June 2022 - Present

Software Developer

- Demonstrated proficiency in TypeScript by successfully converting over 40% of the codebase from JavaScript, leading to a marked improvement in code readability, maintainability, and overall development confidence.
- Devised and implemented a multi-threaded solution leveraging web workers and observables, effectively boosting performance by distributing the processing of FX liquidity provider pricing across parallel processes, resulting in a seamless and efficient experience for our users.
- Proposed and implemented a comprehensive front-end logging framework that leveraged the functional aspect of stream-based programming and the event-driven nature of React components to effectively capture, label, and store detailed events and interactions, enhancing overall monitoring and analysis of user behavior.
- Orchestrated a comprehensive overhaul of the highest-revenue flagship application, achieving remarkable improvements in user experience and efficiency. This initiative streamlined the app's performance, which averaged an astounding 52 billion dollars in daily trading volume, making it the company's most lucrative asset. Strategic refactoring of the front-end state was instrumental in driving these transformative enhancements.
- Invested significant time strategically refactoring the codebase by adopting the React container pattern, optimizing code, enabling comprehensive testing, and fostering a cleaner separation of concerns with more organized component divisions in libraries.
- Dedicatedly involved in the CI/CD pipeline, increasing test coverage, actively crafting unit, integration, end-to-end and performance tests to reduce collateral bugs and boost deployment confidence.
- Played a pivotal role in optimizing developer experience by spearheading the migration of the local development server from Webpack to Vite and transitioning the testing framework from Jest to Vitest for improved efficiency and a seamless development process.

### Zevero

August 2021

Software Engineer Intern

- Focused on the foundational aspects of the organization, I played a key role in crafting a Python-based solution that accurately gauges a business's carbon footprint through a meticulous analysis of its diverse operational activities.
- Implemented seamless API integration with Google Maps, enhancing geospatial functionality. Integrated Searoutes for maritime features, optimizing routes and nautical data, elevating user experience in a dynamic environment.
- Executed a successful deployment within a robust microservices architecture, ensuring optimal scalability and performance. Furthermore, established a seamless and secure linkage to the relevant SQL database, effectively harnessing essential data for carbon footprint estimation and analysis.

### Dexion Storage Solutions

July 2017 – January 2018

Software Developer Intern

- Engaged in a vital initiative, leading the migration of the company's fundamental internal business management software to an updated iteration (a customized EPICOR fork coded in C++).
- Established a strong professional groundwork within a technical milieu, gaining proficiency in practices like Test-Driven Development (TDD) and Agile methodologies.

## PROJECTS

[github.com/sgsavu](https://github.com/sgsavu)

- Developed a web-based AI software-as-a-service (SaaS) application that enables users to schedule a diverse range of tasks. This is facilitated through interaction with a Typescript React frontend, while the tasks are managed by a short-lived Go backend. The backend is equipped with capabilities such as AI-powered audio voice retrieval, synthesis, and inference. [🔗](#)
- Conceptualized, executed, and currently oversee a personal Linux-based data center catering to multiple personal needs, encompassing family-oriented cloud storage, seamless on-demand media streaming, a customized personal API, a publicly available bitcoin node, and an integrated network ad-blocking system— all managed remotely, securely.

## SKILLS

**Languages** Javascript, Typescript, Go, Rust, C++, Python, English (fluent), Romanian (native)

**Frameworks** React

**Tools** Git, Docker, Docker Compose, NodeJS, Webpack, Vite, Jest, Vitest

**Cloud** AWS, GCP

**Database** MySQL, Redis, Firebase

**Interests** Theology, Finance, Economics, Cryptography