

# Alex Costea

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## SUMMARY

Passionate, motivated and skilled software engineer with multiple years of professional experience at Europe's largest software company. Multiple times Computer Science national Olympiad contestant in Romania, including a bronze medal in 6th grade. Thrives in fast-paced, innovative environments that value both depth and breadth of knowledge. Moved to the United States in September 2024, and received work authorization (Employment Authorization Document) in April 2025. Actively looking for opportunities in web development, AI, B2B SaaS and other software development positions.

## EXPERIENCE

### Software Engineer

April 2025 – Present

*Shalestone Capital, Unpaid*

*Syracuse, New York*

- Actively developing a TypeScript/Node app for the analysis/retrieval of information and summarization of email inboxes using AI technology, thus saving users a significant amount of time spent on organization and management

### Software Engineer

March 2025 – Present

*TechEngine Capital, Unpaid*

*Syracuse, New York*

- Developed and deployed a full-stack React/Node app that scrapes business opportunities and notifies users of new postings, as well as provides AI-generated overviews of the businesses, thus significantly streamlining the acquisition process

### Software Engineer II

Apr 2024 – Sep 2024

*SAP, Full-time*

*Bucharest, Romania*

- Lead the development of an internal hardware sourcing app, including various user roles and automated workflows based on business requirements, thus streamlining the tracking of resources and reducing costs significantly
- Developed an internal terminal tool to streamline the process of compiling, building and deploying Commerce Cloud instances using Python and Unix Shell, thus reducing developer time spent on manual tasks

### Software Engineer I

July 2022 – Mar 2024

*SAP, Full-time*

*Bucharest, Romania*

- Lead the development of an AI Assistant using OpenAI services and RAG pipelines, developed with TypeScript and CSS in the front-end and Python and Flask in the back-end, which is estimated to reduce costs by 1.8 million dollars per year
- Implemented new features for a Commerce Cloud project using TypeScript, Angular and CSS, such as integrating HTTP services, creating components and handling localization for a 2 billion dollars per year revenue company
- Developed solutions for numerous Java, Spring and SQL back-end issues, as well as JavaScript, TypeScript, JQuery and Angular front-end issues, within SAP Commerce Cloud systems for multiple multi-national clients
- Provided mentorship to 4 co-workers in successfully passing the Oracle Certified Associate Java Exam, as well as in their integration within projects, thus contributing to their success within the company

### Data Analyst

September 2018

*CEREFREA Villa Noël, Internship*

*Bucharest, Romania*

- Crawled the web and scraped online articles from extremist websites, in order to facilitate their analysis
- Performed statistical and natural language analysis of the collected data using the NLTK library in Python

## EDUCATION

### University of Amsterdam

Amsterdam, Netherlands

*Bachelor of Science in Sociology. GPA: 7.75 (US equivalent: A)*

*September 2019 – August 2022*

## PROJECTS

### Wiles (programming language, online code editor and interpreter)

August 2022 – Present

- Designed the specifications for a programming language, supporting features such as conditional statements, loops, various data types, first-class functions, generics, sum types, hash maps, pattern matching and type inference
- Implemented the software architecture to parse the input code into an Abstract Syntax Tree, to check the syntax tree for correctness and type safety, to infer unspecified type definitions and to interpret and execute the syntax tree
- Developed a Java and Spring Web based back-end for the online interpreter, which can receive REST API calls with Wiles code to execute and return the output, with support for concurrent calls
- Built and deployed a secure front-end which allows users to interact with the Wiles interpreter online as well as locally, including a syntax and error highlighter, developed using TypeScript, React, CSS and Vite
- Wrote extensive tests to thoroughly validate the application, achieving 90%+ test coverage for the interpreter

## TECHNICAL SKILLS

**Languages:** TypeScript, Java (Oracle Certified Associate), Python, Kotlin, JavaScript, HTML, CSS, Shell, SPSS

**Frameworks and Libraries:** React, Angular, Vite, Spring, Spring Boot, Flask, Node.js, Express, NLTK, JQuery

**Developer Tools:** Git, Docker, Amazon Web Services, VS Code, IntelliJ, Apache Ant, Maven, Postman, Kubernetes

**Technologies:** Nginx, Caddy, JSON, SQL, Azure, AWS, REST APIs, HTTP, Regex, Ajax, Windows, Linux, Mac