

# Alex Costea

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## EXPERIENCE

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### Junior Software Engineer

July 2022 – Present

*SAP Romania*

*Bucharest, Romania*

- Debugged and developed solutions for various Java, Spring and SQL back-end issues within an SAP Commerce Cloud system for a multi-national client, which significantly sped up development time
- Designed solutions for major JavaScript and JQuery front-end issues, as such unblocking basic functionality such as registering a new account and placing an order
- Initialized, configured, fixed SQL issues and deployed SAP Commerce Cloud systems for multi-national client, to be used as a starting point for their e-commerce project
- Provided mentorship to co-workers for taking the Oracle Certified Associate Java exam, thus contributing to their success in their certifications
- Rigorously tested custom software developed for Commerce Cloud solutions by myself and co-workers in order to ensure its correctness

### Internship

Sep. 2018

*CEREFREA Villa Noël*

*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

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### University of Amsterdam

Amsterdam, Netherlands

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

*Sep. 2019 – Aug. 2022*

- Wrote Bachelor's thesis on the correlation between centrality methods and social influence
- Collected Twitter data using the Twitter REST API and the Tweepy library in Python
- Created graph data structure based on collected data using the NetworkX library
- Performed a thorough statistical analysis of the graph structure using SPSS

## PROJECTS

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### Wiles (programming language & interpreter) | *Kotlin, Java, Maven, Jackson, Git*

August 2022 – Present

- Designed the specifications for a procedural and functional programming language with clear syntax
- Developed the software architecture for the language's interpreter using design patterns in order to optimize for code reuse, maintainability and performance
- Implemented algorithms to parse the input code into an Abstract Syntax Tree, as well as to check the input code for correctness and type safety
- Created an interpreter which executes the commands corresponding to the type-checked syntax tree.
- Wrote extensive unit tests to thoroughly test the application for correctness, achieving 90%+ test coverage.

### Greatest Hits! | *Java, JavaScript, AWS, Spring Boot, Thymeleaf*

2020 – Present

- Designed a realistic music charts mathematical model in order to simulate the natural progression of songs
- Persisted charts data using a JSON-based data format
- Implemented a REST API using Spring Web and Thymeleaf for access to songs, artists and chart history
- Developed front-end functionality using JavaScript and CSS
- Configured Apache Tomcat server using and deployed the application to Amazon Web Services

### Swipr | *Kotlin, Android Support Library, Gradle, Git*

2019

- Developed a Android video game based on the classic Minesweeper game
- Designed a responsive, native, customizable UI using the standard Android library
- Wrote thorough documentation for the code in order to improve maintainability
- Signed the app using key certificate and deployed the app to the Google Play Store

## TECHNICAL SKILLS

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**Languages:** Java (Oracle Certified Associate), Python, C/C++, Kotlin, C#, JavaScript, HTML/CSS, SPSS

**Frameworks and Libraries:** Spring, Spring Boot, Node.js, JUnit, NLTK, Thymeleaf, Jackson, JQuery

**Developer Tools:** Git, Docker, Amazon Web Services, Visual Studio/VS Code, IntelliJ, Apache Ant, Maven, Gradle

**Technologies:** Apache Tomcat, JSON, SQL (MySQL), AWS, REST APIs, Regex, Windows/Linux/Mac