

# Victor Selegean

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GitHub

Hugging Face

LinkedIn



## SUMMARY

Computer Science graduate with experience in **cross-platform mobile development, systems programming, and machine learning deployment**. Skilled in **C++, Java, Kotlin, Swift, and Python**, with a focus on building high-performance, reliable software. Passionate about solving complex technical problems and pursuing further studies in **high-performance computing and backend systems**.

## WORK EXPERIENCE

### • Mobile Applications Assistant Programmer

*Garmin, Department of Marine Applications*

*July 2024 - June 2025*

[LinkedIn](#)

- Started as an intern and continued for an additional year following performance before pursuing further studies
- Focused on a common C++ core of functionalities used by multiple products on both **iOS and Android**
- Used **Java and Objective C** to expose the core functionality to the **Kotlin and Swift** applications
- Delivered a new customer-facing feature and improved developer productivity by expanding internal tooling
- Conducted the end-to-end development of a feature, from planning and design to implementation, testing, and demos

## EDUCATION

### • Babeș-Bolyai University

*Computer Science in English*

*Oct 2022 - June 2025*

[Website](#)

- Admitted following a Mathematics Admittance Exam where I scored **9/10**
- Graduated an additional specialization in the teaching of computer science for secondary education
- Finished after 3 years with a **9.43/10** average grade and taking multiple optional courses in **C Programming, Communication, and Advanced Problem Solving**
- Graduated with a **8.95/10** grade at the graduation exam

### • Emil Racoviță National College

*Mathematics and Computer Science with Intensive English*

*Oct 2018 - June 2022*

[Website](#)

- Admitted in 2018 following the standard national testing with a grade of **9.8/10**
- Qualified for the **National English Olympiad** in 2019
- Participated in **volunteering** activities related to the **Student Council** before and after the COVID break
- Participated in the **2022 MATH.en.JEANS congress in Avignon** making a **presentation** alongside a team of students from France and Romania
- Passed the Baccalaureate Exam in 2022 with an average grade of **9.85/10** for Romanian, Mathematics and Computer Science

## TECHNICAL SKILLS

### • Programming Languages:

Worked professionally with **C++, C, Java, JNI, Objective C, Kotlin, and Swift**

Built projects with **Python, C#/NET, Javascript, and Typescript** during university

Solved problems and built small projects with **Lisp, Prolog, MatLab, SageMath, and Flutter**

### • Frameworks:

Used **PyTorch, Transformers, FatAPI, JetpackCompose** for Bachelor's degree project

Graduated the **MSG Web Development Bootcamp** focusing on **Angular and Java Spring**

Built and deployed **React and Java Spring** application as part of university coursework

Created desktop GUIs with **Qt, JavaFX, and WPF** as part of university coursework

### • Tools:

Used **Git** for version control and collaboration

Integrated projects in **GitHub and Gerrit** for code review

Set up **Jenkins** jobs for continuous integration and deployment

Used **grep, sed, awk, and other Unix system utilities** for processing text

### • Databases:

Created and managed relational databases with **PostgreSQL, MySQL, and Microsoft SQL Server**

Certified **Oracle Database Administrator** in 2022

Managed object storage through **S3**

## • Projects and Optional Courses:

Participated in a team of students building an **Emotion-Based Song Lyric Generator** for Understanding and Developing Large Language Models

Deployed a **Dockerized** application on **AWS** for Cloud Applications Architecture

## • Languages:

Native Speaker of **Romanian**

Cambridge **English**: Advanced, grade A (level **C2** - 207/210) from July 2021

## PROJECTS

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### • Enhancing Romanian Automated Speech Recognition using Multilingual Training Data

*Bachelor's Thesis Project*

*October 2024 - June 2025*

**Website, Hugging Face**

- Pipeline using **PyTorch, Transformers, Datasets** to generate training data, **fine tune openai/whisper**, and benchmark different models
- Best performing model deployed on **InferenceEndpoints**
- **Dockerized FastAPI** application deployed on **AWS EC2** to handle security and interact with **S3** storage
- Android **JetpackCompose** application for sending data to the model and displaying results

### • Decentralized Peer to Peer Chat Application

*Principles of Performance Oriented Coding Course*

*October - December 2024*

**Github**

- Used **Java, Gradle, Gson** to create a peer-to-peer chat using a **custom communication protocol** and **sockets**
- Made use of complex synchronization mechanisms to create a robust and reliable application

### • .NET Collective Project

*Software Engineering Course*

*March - June 2024*

**Github**

- Lead a team of students across a semester, figuring out ways to work in a competitive environment
- Got familiar with **C#, Design Patterns and Version Control Systems**
- Had to develop and make use of **leadership, teamwork, and conflict management skills**
- Developed an in-house ORM for our application domain

### • Programming Language Parser

*Advanced Programming Methods Course*

*October 2023 - January 2024*

**Github**

- Extended an university project by adding support for parsing a custom programming language
- The language supports repetitive instructions, scope management, multiple threads of execution, and garbage collection

### • TTRPG Combat Balancer

*for the Mörkborg game*

*August 2025*

**Website**

- Simulate combat between parties of players and different enemies
- Built using **Vite, React, and TailwindCSS**, deployed using **Vercel**

## VOLUNTEERING

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### • Erasmus Buddy System

*Local Buddy*

*September 2023 - July 2025*

**Cluj-Napoca**

- Acted as a local guide and friend helping 3 Erasmus students from Germany and France accommodate to Cluj-Napoca and UBB

### • Erasmus Student Network

*HR Volunteer*

*October 2023 - February 2024*

**Cluj-Napoca**

- Organized regular cultural exchange events for volunteers, including book clubs and movie nights