

Victor Selegean

victor.v.selegean@gmail.com

+40-737035985

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

July 2024 - June 2025

Garmin, Department of Marine Applications

[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

• Babeş-Bolyai University

Oct 2022 - June 2025

Computer Science in English

[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

Oct 2018 - June 2022

Mathematics and Computer Science with Intensive English

[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

- **Enhancing Romanian Automated Speech Recognition using Multilingual Training Data** *October 2024 - June 2025*
Bachelor's Thesis Project **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** *October - December 2024*
Principles of Performance Oriented Coding Course **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** *March - June 2024*
Software Engineering Course **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** *October 2023 - January 2024*
Advanced Programming Methods Course **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** *August 2025*
for the Mörkborg game **Website**
 - Simulate combat between parties of players and different enemies
 - Built using **Vite**, **React**, and **TailwindCSS**, deployed using **Vercel**

VOLUNTEERING

- **Erasmus Buddy System** *September 2023 - July 2025*
Local Buddy 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** *October 2023 - February 2024*
HR Volunteer Cluj-Napoca
 - Organized regular cultural exchange events for volunteers, including book clubs and movie nights