Miloiu Cristi

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Personal profile

I am a 3rd year student at the Faculty of Electronics, Telecommunications and Information Technology, within the Politehnica University of Bucharest. I am a persistent person, passionate about web development and artificial intelligence, who wants to contribute to the evolution of the communities he is a part of and is willing to learn new things.

Education

Faculty of Electronics, Telecommunications and Information Technology *Bucharest Romania*
Specialization: Computer science *Oct 2021 - Prezent*

- **Courses:** Computer Programming, Data Structures and Algorithms, Object Oriented Programming, Artificial Intelligence Systems Engineering, Digital Integrated Circuits, Microprocessor Architecture, Probability Theory and Mathematical Statistics, Android Programming

Work experience

Genezio *Bucharest Romania*
Software Engineer *September 2023 - present*

- At Genezio, I work on product development and improvement, contributing to the evolution of the project and supporting our community.
- I initiate and develop new functionality, thus contributing to the improvement of the tools and performing tests for them. Examples of introduced functionalities: users management, integration of queues.
- In my work, I work with various database management systems, with a focus on MongoDB, PostgreSQL, and MySQL, using various ORMs such as Prisma, Sequelize, and Mongoose.
- For team collaboration, we use the GitHub platform to propose changes (pull requests) and perform reviews on them. In addition, for task flow management and internal communication, we rely on the tools: Jira and Slack.
- I write articles, sample projects for the community.
- **Practical skills: Typescript, Go, React, Node.js, Prisma ORM, Sequelize, Mongoose, GitHub**
- **Soft skills: Team work, Effective collaboration, Adaptability, Effective communication, Problem solving**

Genezio *Bucharest Romania*
Full Stack Intern *July 2023 - September 2023*

- We designed and implemented a system based on a Large Language Model (LLM), using a GPT Chat model that we trained with the company's documentation, allowing it to provide responses based on that documentation. This project involved the use of the JavaScript programming language and a framework called Langchain. Later, I was able to successfully integrate this pattern into a Discord bot, responsible for handling requests and providing responses via a webhook. Additionally, for the CI/CD (Continuous Integration/Continuous Deployment) aspects, I used CircleCI.
- I designed and developed a quiz web application in TypeScript, using key technologies such as React, MySQL and Prisma ORM.
- We have successfully implemented an example webhook in TypeScript. Also publishing a package to the npm platform.
- I developed integration tests in Python and unit tests in TypeScript. These tests are essential for maintaining the stability of the tool and for identifying bugs during updates from one version to another.
- **Practical skills: Typescript, Javascript, Python, React, Node.js, Prisma ORM, Langchain, LLM, Bootstrap, Github, Github Actions**
- **Soft skills: Team work, Time management, Effective communication, Problem solving**

HUAWEI ENTERPRISE ROMANIA GSC *Bucharest Romania*
Intern System Engineer *July 2022 - Oct 2022*

- During my internship, I learned about the different protocols of servers (x86) and storage systems (SAN and NAS).
- **Practical skills: Linux, FC, RAID, FCOE, CIFS, NFS, SCSI.**
- **Soft skills: Team work, Time management, Communication, Creative thinking**

Personal Projects and Competitions

1st place: Electron, Hackathon by LSE
Electrify the Campus, Application for the management of a modern parking lot using artificial intelligence.

Bucharest Romania

May 17, 2023

- The objective was to find intelligent and innovative solutions within 24 hours to create a Smart Campus.
- The technology used to solve the problem is a neural network of the YOLOv5 type, which aims to detection and recognition of license plates in an image captured by a video camera.
- Once the registration number is recognized, it is extracted using the EasyOCR library, then the text is searched in a MySql database, and a request is sent to an esp32 to open the barrier.
- **Practical skills: Python, PHP, SQL, Arduino**
- **Soft skills: Team work, Communication, Creative thinking, Drafting the project, Team coordination**

2nd place: Scientific communications session within the Faculty of Electronics, Telecommunications and Information Technology
Section 04-04 - Telecommunications (Mobile Telecommunications Applications)

Bucharest Romania

May 5, 2023

- Mobile application for finding stolen cars using a neural network for license plate detection.
- The algorithm takes the date from an image, using a pre-trained YOLOv3 model, the object (license plate) is extracted, then we use a color transformation, the image becomes gray. And at the end, remove the colors and extract the text using the EasyOCR library.
- After we extract this text, it is searched in a database, and if it is found, an email will be sent with the geolocation of the phone and a url to a google maps map.
- **Practical skills: Python, SQL, Flutter**

Volunteering

League of Electronics Students
Board Member

Bucharest Romania

October 2023 - present

- Representing the students of my year of study in the Board of Directors of the Electronics Students League
- Maintaining constant liaison with the students I represent to find out in a timely manner the problems or concerns they are facing
- Actively participating in all meetings of the Board of Directors
- **Soft Skills:** Emotional Intelligence,Risk Management , DependabilityAptitudini

League of Electronics Students
Assistant Coordinator

Bucharest Romania

October 2022 - October 2023

- As an Assistant Coordinator in the IT Department of the Electronic Students League, I worked with volunteers to develop several web applications, training them in the fundamentals of web programming. We covered languages such as JavaScript, TypeScript, using the React framework, Tailwind, as well as project management on the GitHub platform. The projects where I was responsible were:
  - Lsebucuresti - Presentation site of the organization
  - BBETTI - Voting site for freshman prom
  - APV - Site for the presentation of cross country
- **Practical Skills:** Javascript,Typescript,React, Node.js, Github, Tailwind
- **Soft Skills:** Teamwork, Communication, Creative Thinking, Learning Beginners, Team Coordination

Technical skills

Programming languages	Typescript, Javascript, Go, Python, C/C++.
Tools	Webstorm, Goland, Postman, TablePlus, MongoDBCompass, Github.
Frameworks	React, Tailwind, Bootstrap
Database	MySql, MongoDB, Postgresql
Orm	Prisma, Mongoose, Sequelize

Languages

English	Intermediate B2
French	Beginner A2