



Oliviu-David Cigan
Software Engineer

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EDUCATION

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA / 2020 – 2024

Automation and Applied Informatics

During my academic journey, I completed a comprehensive set of courses in Mathematics, Systems Engineering, Electronics & Engineering, and Software Engineering.

In Mathematics, I studied Linear Algebra, Analytical Geometry, Differential and Integral Calculus, Special Mathematics for Engineering, and Numerical Calculus. These courses honed my analytical abilities and problem-solving skills, essential for programming and systems theory.

In Systems Engineering, I gained a deep understanding of modern systems, their analysis, and efficient control. I excelled in Process Modeling, Signals and Systems (including discrete and continuous signals analysis), Systems Theory (analyzing system behaviors), Systems Identification (identifying system models), and Automatic Control Engineering (improving system performance).

My Electronics & Engineering courses covered hardware design, analysis, firmware development, and data transmission, expanding my knowledge in electronics and embedded systems.

In Software Engineering, I mastered the Linux Operating System, algorithm programming, Object-Oriented Programming, threads management, SQL-based databases, web development, assembly programming, and graphical modeling through Lisp and functional programming.

THEORETICAL HIGH-SCHOOL CAREI / 2016 – 2020

Mathematics and Informatics

During high school, I began exploring coding and algorithms, applying them across programming languages like C, C++, Java, Python, and C#. I also ventured into web development contests, working with technologies such as PHP, Laravel, Python Django, JavaScript, jQuery, HTML5, and CSS3, albeit at a basic level. Additionally, I actively contributed to in-school projects involving website development. These experiences ignited my passion for technology and software engineering, setting the stage for my future pursuits in the field.

PROFESSIONAL SKILLS

HTML5 / CSS3	<div><div></div></div>
JavaScript / Typescript	<div><div></div></div>
ReactJS	<div><div></div></div>
GIT	<div><div></div></div>
Python / Django	<div><div></div></div>

LANGUAGES

ENGLISH

Reading: 10 Writing: 10 Understanding: 10

FRENCH

Reading: 7 Writing: 6 Understanding: 8

WORK EXPERIENCE

Software Engineer – 3SS / OCT 2021 - Present

Part Time

In my current role, I am one of the key individuals responsible for implementing new features with a strong emphasis on maintaining code quality in ReactJS and TypeScript. This role includes conducting Code Reviews and collaborating closely with the development team to optimize and refactor code for enhanced efficiency.

I take pride in being one of the points of contact with our clients, addressing bug reports, resolving live app issues, and responding to inquiries about the system and potential new feature implementations. My commitment to delivering high quality extends to utilizing automation and unit testing development to ensure we provide top-notch products to our customers.

Currently, I am privileged to be part of a high-impact project—a leading VOD application boasting over 600,000 unique monthly users (typically reaching at least 1.6 million monthly users). Furthermore, I actively contribute to another internal project where I review implementations on both the Backend (Node.js and TypeScript) and the Frontend (ReactJS with TypeScript), offering valuable consultation on different implementations.

Additionally, I play an important role within the internship development team, with my primary focus on mentoring and participating in the interview process. My commitment to excellence and my dedication to both technical innovation and teamwork are significant drivers of my contributions to the organization.

Deep Learning Research - ADAPTED / NOV 2022 - Present

Part Time

Together with a startup company from Canada, I am currently working to gain a deeper understanding of Neural Networks, Recurrent Neural Networks, Deep Learning, and Machine Learning.

My primary research direction is focused on automating global investment management strategies. Specifically, I am leveraging deep learning to identify patterns in available data that are beyond human capability to identify for control purposes.

In addition, I am actively seeking the best data to achieve maximum accuracy of the deep learning algorithm. Through my research, I hope to create more efficient and accurate investment management strategies that will benefit our clients.

Intern Web Application Developer – 3SS / AUG 2021 – SEP 2021

Full Time

During my internship, I collaborated with a team of five to build a basic VOD web app using ReactJS. My responsibilities included implementing features like the Authentication System, Custom Fetching mechanisms, error boundaries, various design elements, and addressing responsive design challenges. I also learned about Agile methodologies, teamwork dynamics, and effective communication. Additionally, I gained experience in deployment systems and CI/CD, using Git and GitLab for version control, and participating in daily stand-up meetings to ensure seamless team coordination. This internship provided me with a well-rounded understanding of both technical and soft skills.

AWARDS/PAPERS/COURSES

Informatics Special Prize - 2020

For meritorious results obtained during high school and interest regarding the Software Engineering field.

REFERENCES

Pal Mukul – CEO

ALPHABLOCK

Contact: mukul@alphablock.org

Cristina Nilvan – Software Engineer

AMDARIS

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