Oliviu-David Cigan
Software Engineer

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EDUCATION

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA / NOV 2020 – JULY 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.

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).

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

JavaScript / Typescript

ReactJS

GIT

Python

LANGUAGES

ENGLISH

Reading: 10   Writing: 10   Understanding: 10

FRENCH

Reading: 7   Writing: 6   Understanding: 8

WORK EXPIRIENCE

Data Scientist – Alphablock Technologies / 1 JAN 2024 – Present
Part Time

I am part of the development of next-generation investment models and conduct in-depth financial research. Utilizing tools like Python, Scikit-Learn, Matplotlib, and Pandas, I process large datasets to identify valuable insights. My work centers on creating robust, data-driven models that inform investment strategies, while simplifying complex data for easy interpretation.

Software Engineer – 3SS / 1 OCT 2021 - Present
Full 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.

For almost three years as a student, I worked part-time, starting with 4 hours per day and later increasing to 6 hours. I only worked full-time during my summer vacations, which lasted 3 months. I transitioned to a full-time role on July 1st.

Deep Learning Research - ADAPTED / 1 NOV 2022 – 31 DEC 2023
Part Time

I collaborated with the ADAPTED team and Canadian startup Alphablock on a year-long research project focused on finance, titled 'Revolutionizing Active Investing with Machine Learning.' Throughout this project, I strengthened my skills in machine learning, data processing, and data analysis, while also delving into fundamental financial concepts for our analysis. The research process was iterative and flexible, starting from data acquisition and preprocessing, through pattern analysis, to drawing conclusions and implementing the 3N method for predictive purposes using machine learning. Our goal was to identify the most effective machine learning algorithm for maximizing returns based on the available data.

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.

REFERENCES

Pal Mukul – CEO
ALPHABLOCK

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Cristina Nilvan – Software Engineer
AMDARIS

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