



Paul-Cătălin Ochiș

📍 Timișoara, Timiș • 📞 0747772646 • ✉️ ochispaulcatalin27@gmail.com

Profiles

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Summary

Full-Stack Developer with expertise in **JavaScript, TypeScript, React, Next.js, .NET, and Spring Boot**, skilled in **cloud deployments (AWS, Azure), DevOps (Docker, GitHub Actions), and database management (PostgreSQL, MySQL, MongoDB)**.

Pursuing a **Master's in AI & Distributed Computing**, focusing on **machine learning, cryptography, and automation**. Developed **enterprise web applications** at Schaeffler, improving workflow efficiency and scalability.

Passionate about **AI, distributed systems, and automation**, with experience in **SharePoint, chatbot development, and cloud infrastructure**. Skilled in **UI/UX and agile methodologies**, driving innovation in modern applications.

Experience

Schaeffler	November 2024 - Present
Junior Full Stack Developer	Timișoara, Timiș

Award Website

- Designed and developed a **web application** for the **Quality Department**, providing a centralized platform for managing awards efficiently.
- Built both the **frontend and backend** using **Next.js**, ensuring a seamless and scalable full-stack solution.
- Developed and optimized the **UI/UX design**, enhancing user experience and workflow efficiency.
- Utilized **PostgreSQL** as the database, ensuring reliable and efficient data management.
- Implemented a robust **CI/CD pipeline** using **GitHub Actions**, streamlining development and deployment.
- Leveraged **Docker** for containerization, enabling consistent and portable deployments.
- Deployed and hosted the application on **AWS**, ensuring high availability and scalability.
- Provided detailed **documentation** for deployment, configuration, and user onboarding.

Portfolio Management Website for Schaeffler

- Designed and developed a **Portfolio Management website** to manage Schaeffler products effectively, delivering a scalable and secure solution.
- Built the **frontend and backend** using **Mendix**, ensuring a low-code, efficient, and adaptable application.
- Integrated **Mendix's state management capabilities**, enhancing application performance and user experience.
- Secured user authentication with **Single Sign-On (SSO)** to ensure seamless access control and user management.
- Leveraged **Docker** for containerization, enabling consistent deployments across environments.
- Implemented a robust **CI/CD pipeline** using **GitHub Actions**, streamlining development and deployment processes.
- Deployed and hosted the application on **Azure**, ensuring high availability and scalability.
- Provided detailed **documentation** for deployment, configuration, and user onboarding.

Schaeffler	March 2023 - November 2024
IT Service Support and Development	Timișoara, Timiș

- Delivered specialized global support for **Microsoft SharePoint Enterprise**, addressing complex technical issues, managing system configurations, and ensuring seamless functionality for users across multiple regions worldwide, contributing to enhanced user productivity and operational efficiency.
- Designed and implemented a custom extension for **SharePoint using C#**, enhancing its functionality to meet specific business requirements. Additionally, contributed to the development of a comprehensive **archiving solution**, responsible for coding key features and ensuring the system's stability and performance, also utilizing **C#** for optimal results.
- Streamlined the deployment of new software for global users, ensuring smooth implementation, minimal downtime, and improving user adoption worldwide.
- Leveraged **Grafana** and **Prometheus** to achieve peak efficiency in IT service monitoring. Orchestrated strategic plans for advanced service monitoring systems, utilized Prometheus for comprehensive monitoring across multiple data sources, in Grafana for superior data visualization and analysis.
- Developed a **risk action list chatbot** similar to **ChatGPT**. Utilized **Figma** for UI design and implemented the site using **Vue.js with TypeScript, Vitest, and Pinia**. Hosted the website on **AWS** and integrated **Single Sign-On (SSO)** authentication using **Azure Active Directory** groups. Additionally, proposed and implemented a **chat history feature**, leveraging **AWS Lambda, AWS DynamoDB, and AWS CloudWatch** for efficient data handling and system scalability.

Continental Automotive	Jul 2022 - Feb 2023
Computer Operator Electronic and Networking	Timișoara, Timiș

- Worked on the development and integration of an **automated data processing and visualization system**, optimizing efficiency and real-time data accessibility.
- Proficient in a wide range of programming languages, including **HTML, CSS, JavaScript, Node-Red, and MySQL**, ensuring seamless backend and frontend integration.
- Experienced in leveraging powerful software tools such as **Grafana for dynamic data visualization and Prometheus for real-time data monitoring and alerting**, enhancing system performance and reliability.

Education

West University of Timișoara	2024 - 2026
Artificial Intelligence and Distributed Computing	Masters Degree

I am currently pursuing a **Master's Degree in Artificial Intelligence and Distributed Computing**, where I am deepening my understanding of cutting-edge technologies that drive intelligent systems and scalable computing solutions. My coursework covers key areas such as **machine learning, neural networks, distributed algorithms, data mining, natural language processing, and foundational cybersecurity**, equipping me with the skills to design and implement AI-driven applications.

As part of my studies, I developed a **digital certificate management system**, which acts as a trusted authority for issuing, verifying, and revoking digital certificates. This system enhances secure communication by ensuring that only verified identities can exchange encrypted messages. It generates unique cryptographic keys, prevents unauthorized access through certificate revocation, and maintains activity logs for security monitoring. This project strengthens my expertise in cryptographic security and AI-driven automation for identity verification.

Politehnica University of Timișoara	2024 - 2026
IT Systems Applied in Production and Services	Master Degree

I am currently pursuing a **Master's Degree in IT Systems Applied to Production and Services**, where I am deepening my understanding of how advanced information technologies can be integrated into production environments and service industries. My coursework focuses on optimizing production processes, enhancing service delivery, and improving operational efficiency through IT solutions. As part of my studies, I developed a **full-stack salary calculation application in C# with .NET** for the backend and **jQuery** for the frontend, designed to assist Romanian employers in managing employee salaries. The application included features such as **user management, automated salary calculations, and report generation using Crystal Reports**, providing a comprehensive solution for payroll management.

Politehnica University of Timișoara	2020 - 2024
System Engineering	Bachelor Degree

During my undergraduate studies, I gained extensive experience in various programming languages, working with both low-level languages like C and C++ and high-level languages such as C#, Java, Python, and JavaScript.

As part of my bachelor's thesis, I developed a **Library Management System**, utilizing **MySQL** for the database, **Java Spring Boot** for the backend, and **React with TypeScript** for the frontend. Additionally, I worked on a **smartphone-controlled remote car**, which was built using **Python, a Raspberry Pi, and Kotlin** for the mobile application.

Projects

StockShelf

🔗 <https://github.com/Ochis27/StockShelf>

StockShelf is a full-stack application that uses React for the frontend, Java Spring Boot for the backend, and MySQL as a database. The project integrates Stripe for payment processing and Okta for user authentication. Users can manage book catalogs, track loans, and handle fines efficiently. Administrators can add or update books, while users can search for and borrow books. The system calculates and processes late fees through Stripe. All user and book data, including transactions, are securely stored in the MySQL database.

Java, Java Spring Boot, React, TypeScript, OKTA, Maven, Stripe

Neuronal Network

🔗 <https://github.com/Ochis27/NeuralNetworkJava>

I build a neuronal network in Java which is used to detect text from images and it highlight it, also the data is trained on a MINST dataset

Java, JUnit, Linear Algebra, Computer Vision, Neuronal Network

ByteBooks

🔗 <https://github.com/Ochis27/ByteBooks>

ByteBooks is a full-stack application built using React for the frontend, Node.js with Express and MongoDB for the database. It allows users to browse, purchase, and read e-books, while administrators can manage e-book listings. The platform integrates AWS for hosting and storage, ensuring scalability and secure access to content. User authentication is implemented, and all data, including transactions and user information, is securely stored in MongoDB, providing a smooth and secure experience for both users and administrators.

React.js, Epub, Node.js, Express.js, MongoDB, AWS, Stripe, TypeScript

SmartBrains

SmartBrain is a fullstack application which uses React for the frontend, Node.js for the backend and PostgreasSQL as a database. The project has integrated a machine learning API, which is used to detect faces. Users can upload a photo and then press a button to detect how many photos were in that image, all of the data is then stored in a database.

Machine Learning, React.js, JavaScript, Node.js, PostreSQL, Computer Vision

Revents

🔗 <https://github.com/Ochis27/revents>

I built a web app for event sharing, similar to Facebook Events, using modern web technologies. The app allows users to create, join, and manage events, sign in with social accounts, view event locations on a map, upload photos, and chat in real time. It's designed to be user-friendly and responsive, making event planning easy and interactive.

React.js, Redux, TypeScript, Firebase