Szakacsi Ferenc-Adam

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💼 WORK EXPERIENCE

Software Developer, Climarol Prest   Jan 2024 – present

- **Web Application Development & Maintenance:** Developed and maintained high-performance web applications using **React** for the frontend and **ASP.NET / Node.js** for the backend. Utilized **MsSQL** and **PostgreSQL** to efficiently manage and process data. Focused on delivering seamless, user-friendly experiences while ensuring scalability to accommodate growing user loads and adaptability across devices, from mobile to desktop.
- **Automated Testing & CI/CD Pipeline Optimization:** Implemented continuous testing with **Jest** (React) and **xUnit** (ASP.NET), ensuring reliable, high-quality code and minimizing deployment issues. Maintained and optimized **CI/CD pipelines** using **Jenkins**, automating build, test, and deployment processes to improve efficiency and accelerate release cycles.
- **Agile Development & Team Collaboration:** Applied **Agile** methodologies, actively contributing to sprint planning and retrospectives. Collaborated effectively with cross-functional teams to meet evolving project requirements, ensure on-time feature delivery, and promote a culture of transparency and continuous improvement.

Software Developer, DevNest   Jan 2022 – Apr 2023

- **Responsive Frontend Development:** Built responsive and visually engaging user interfaces using **React** and **Tailwind**, optimizing performance and accessibility across various devices. Implemented **client-side routing** for smooth navigation and **input validation** to ensure data accuracy and integrity.
- **Server-Side & API Development:** Developed robust, scalable server-side applications with **Node.js** / **ASP.NET**, managing server routes and handling data interactions between the frontend and databases like **PostgreSQL** and **MongoDB**. Implemented **middleware pipelines** to enhance request processing and response times, ensuring high traffic volumes were handled while maintaining system reliability and performance.
- **CI/CD Pipeline Development & Testing:** Maintained CI/CD pipelines using **Jenkins**, optimizing build, test, and deployment workflows for efficient software delivery. Integrated continuous testing with **Jest** and **xUnit** to ensure rapid issue identification and resolution throughout the development cycle.
- **Agile Development & Sprint Collaboration:** Applied **Agile** methodologies, contributing actively to sprint planning and retrospectives. Adapted to changing project requirements, ensured timely feature delivery, and promoted a culture of transparency and continuous improvement.

🎓 EDUCATION

Master's Degree in Distributed Systems in the Internet,   Jul 2023 – Jun 2025
Universitatea din Oradea

Bachelor's Degree in Computer Science,   Jul 2020 – Jun 2023
Universitatea din Oradea

🧠 SKILLS

| React | TypeScript | JavaScript | HTML | CSS | Tailwind | Next.js | Node.js |

| Express | C# | ASP.NET | MsSQL | PostgreSQL | MongoDB | Jest | xUnit |

| Postman | Jenkins | SonarQube | Git | GitHub | GitLab | Jira | Figma |

📁 PERSONAL PROJECTS

Personal website 🔗
Developed a fully responsive personal portfolio website using React, TypeScript, JavaScript, HTML, CSS, Tailwind and Vite, showcasing a comprehensive view of my professional and academic journey..

Boiler management app 🔗
Responsive app written with MERN stack that regulates the boiler temperature through the control panel of the house's thermostats.

Football data viz app 🔗
App written in Python using NumPy, SciPy and Pandas that generates multiple graphs and tables visualizing advanced metrics of Premier League players.

📚 SCIENTIFIC RESEARCH

Impact of AI on society, Collegium Varadinum   May 2024
I authored a scientific paper for Collegium Varadinum that meticulously examines the multifaceted effects of artificial intelligence (AI) on society. In this paper, I explored the myriad advantages of AI, such as enhanced efficiency, improved decision-making, and the potential for innovation across various sectors. Conversely, I also delved into the significant drawbacks, including high implementation costs, the risk of increasing unemployment, ethical dilemmas, and the lack of emotional intelligence in AI systems.

By presenting a balanced view of both the benefits and challenges associated with AI integration, I provided a thorough analysis and drew nuanced conclusions about the future implications of AI on societal structures and individual lives. My work was recognized for its depth and clarity, earning me an award for participation and a commendation for securing a high position in the academic evaluation. This recognition underscores the relevance and quality of my research, highlighting its contribution to ongoing discussions about the role of AI in modern society.

🌐 LANGUAGES

English
Professional speaker

Romanian
Native speaker

Hungarian
Native speaker

📑 CERTIFICATES

- Cambridge CAE
- Teaching Module Diploma
- Collegium Varadinum SSC