VLAD ZORILA

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A driven and self-reliant software developer with a BSc in Computer Science and four years of professional experience. At EthnoCare, I independently developed a complex product from the ground up, collaborating with interdisciplinary teams to bring a concept to market. My startup experience honed my ability to solve problems independently, manage end-to-end development processes, and deliver innovative solutions in dynamic environments. Proficient in **front-end development**, **embedded systems programming**, and **automation**.

EXPERIENCE

JANUARY 2025 –
SOFTWARE DEVELOPER, SAFESPACE (FREELANCE)

DEVELOPMENT OF A CROSS-PLATFORM SOCIAL MEDIA MOBILE APPLICATION CENTERED ON MENTAL HEALTH AND WELLBEING

- Built a secure **RESTful API** using **Node.js** and **Express**, managing routes for user registration, posts, comments, and private messaging.
- Designed and implemented a **MongoDB** schema with **Mongoose**, supporting flexible data modeling and fast queries across user-generated content.
- Integrated **JWT-based** authentication and role-based access control, ensuring protected user interactions and secure endpoints.
- Deployed the backend on **Render**, with environment-specific configurations and secret management.

SEPTEMBER 2022 – DECEMBER 2024
SOFTWARE DEVELOPER, ETHNOCARE

Mobile App Development

- Designed and built a mobile app using **JavaScript**, **TypeScript**, and **React Native**, collaborating with engineers and designers to align functionality with product requirements.
- Implemented seamless **Bluetooth** connectivity between the app and a PCB-integrated module, enabling real-time data collection and command transmission.
- Integrated **Firebase** for real-time database management and developed background tasks such as automatic reconnection and continuous data acquisition.

Embedded Systems Programming

- Contributed to firmware development using **C**, enabling precise control of hardware components like pressure sensors and gyroscopes.
- Engineered data pipelines to ensure seamless communication between sensors and the mobile app via Bluetooth.

Automation and Scripting

- Automated sales data categorization using **Python**, enabling regional, client, and pricing insights.
- Developed a script for automatic document printing from Slack channels.

- Built a web scraper to gather lead generation data from public domains.

DECEMBER 2019 – AUGUST 2022
WEB APP DEVELOPER, EXPOSEUM
- Developed a web app to optimize towing support operations, facilitating communication and job management between dispatch centers and towing companies.
- Worked on both front-end and back-end development using **ASP.NET MVC**, with contributions including multilingual support, new feature implementation, and robust database handling.

JUNE 2019 – AUGUST 2022
CALL CENTER TEAM LEADER, ASSISTENZA INTERNATIONAL
- Led a team of 12+ employees in a high-pressure insurance call center environment, ensuring efficient service delivery.
- Developed and enforced quality assurance standards and performance benchmarks, coaching staff to exceed targets.
- Fostered a collaborative team culture, driving both productivity and customer satisfaction.

EDUCATION

JUNE 2018
DEC IN HEALTH SCIENCES, JEAN-DE-BREBEUF

DECEMBER 2022
BSC IN COMPUTER SCIENCE, MCGILL
WAS PART OF THE MCGILL AI SOCIETY
FINISHED IN 3RD PLACE AT MCGILL'S 2021 MCHACKS
RELEVANT COURSES:
- COMP 417: INTRO TO ROBOTS AND INTELLIGENT SYSTEMS
- COMP 424: ARTIFICIAL INTELLIGENCE
- COMP 451: FUNDAMENTALS OF MACHINE LEARNING
- COMP 421: DATABASE SYSTEMS
- COMP 445: COMPUTATIONAL LINGUISTICS
- COMP 307: PRINCIPLES OF WEB DEVELOPMENT

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, C, C#, C++, Python, Java, HTML, CSS

Frameworks: React.js, React Native, Node.js, ASP.NET MVC

Tools & Databases: Firebase, Git, REST APIs, MongoDB, Render