

# Alexandru I. Patulea

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## EDUCATION

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### Technical University of Civil Engineering Bucharest

Bachelor's Degree in Automation and Applied Informatics

Bucharest, Romania

Expected Graduation, June 2026

- **Academic Focus:** Modeling, Simulation and Intelligent Systems
- **Related Coursework:** Data Structures & Algorithms, Objects & Design, Artificial Intelligence, Object-Oriented Programming, Statistics & Applications

## EXPERIENCE

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### Soft Tehnica

Software Development Engineering Intern

Bucharest, Romania

June 2025 – Aug 2025

- Built and deployed full-stack web features using Laravel, JavaScript, PHP, MySQL, and MVC architecture
- Developed secure authentication flows and role-based access control using Laravel Breeze
- Designed database schemas and optimized SQL queries to improve application performance
- Implemented RESTful routes and backend logic to support dynamic frontend interactions
- Debugged and refactored legacy code to enhance maintainability and scalability
- Used Git for version control and independent feature development throughout the project lifecycle

## PROJECTS

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### Tracknity

Independent Project

Bucharest, Romania

Jun 2025 – Jan 2026

- Implemented a real-time fleet tracking web application using Laravel Breeze (PHP) and JavaScript, enabling live vehicle monitoring on an interactive map interface
- Developed a local AI-powered live chat feature to provide automated user assistance and support
- Created a GPS-based live tracking functionality, integrating dynamic map rendering and real-time position updates
- Designed and managed the backend architecture following MVC principles, handling vehicle data processing and tracking logic
- Implemented authentication, role-based access control, and secure session management using Laravel Breeze
- Designed and optimized MySQL database schemas to support tracking data and user accounts
- Applied both client-side and server-side validation to ensure data integrity and platform security
- Used Git for version control and coordinated development processes as project lead

### TechiFy

Independent Project

Bucharest, Romania

Jan 2026 – Feb 2026

- Developed a web application using Laravel (PHP) and JavaScript to track inventory, revenue, and expenses for a small PC parts reselling business
- Developed inventory management features including item addition, editing, deletion, stock status monitoring, and search/filter capabilities.
- Implemented sales processing functionality that automatically updates inventory, records transactions, and calculates profit margins per item and per period
- Designed and optimized MySQL database schemas for products, purchases, sales, expenses, and cashflow reporting
- Created dashboard views and financial summaries (revenue, expenses, net profit) with time-based filtering for business insights

## SKILLS

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**Programming:** Java (Intermediate), Python (Intermediate), JavaScript, PHP, C++, C, SQL, MATLAB, HTML/CSS, React.js

**Technical:** Data Structures and Algorithms, Data Mining, Machine Learning, Artificial Intelligence

**Platforms:** Linux, Windows

**Languages:** Romanian (Native), English (Advanced), French (Beginner)