Bilciurescu Gabriel Cosmin

Software Engineer | AI & Full-Stack Developer

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Profile

Innovative and results-driven Software Engineer with a strong background in AI, full-stack development, and automation. Passionate about building intelligent systems, optimizing workflows, and driving digital transformation. Skilled in designing scalable solutions, leveraging AI-powered automation, and implementing robust architectures across various domains, including enterprise software, cloud computing, and networking.

Proven ability to develop complex applications, streamline business processes, and integrate AI-driven insights into real-world scenarios. Experience in working with multi-agent AI systems, microservices, virtualized environments, and automation frameworks, ensuring efficiency, security, and performance. Adept at full-stack development, DevOps, and cloud computing, with hands-on experience in Azure, Kubernetes, and AI model orchestration.

Education

Polytechnic University of Bucharest - Faculty of Engineering in Foreign Languages

Bachelor's Degree in Computer Science and Engineering (English) | Bucharest, Romania

Relevant Coursework: Object-Oriented Programming, Operating Systems, Data Structures, Microprocessor Architecture, Algorithm Design, Formal Languages & Compilers, Numerical Methods, Neural Networks & AI, Web Programming, Internet of Things

Work Experience

Dvloper | Full-Stack Developer

January 2023 - Present

Developed and maintained AI-powered applications for data processing, virtual machine orchestration, and Windows automation. Designed and optimized scalable architectures for enterprise AI solutions, CRM integrations, and automated workflow systems. Technologies: Python, Azure, LLMs, React, NestJS, MongoDB, ElasticSearch.

Toyota Romania | Full-Stack Developer

August 2023 - November 2023

Designed and deployed an in-house data processing and automation solution to optimize technician workflows and heavy-duty machinery management. Implemented an advanced data collection, processing, and visualization platform, enhancing operational efficiency.

Freelancer (Fiverr) | Automation Bots Developer

2021 - 2022

Delivered custom automation bots for web scraping, data modeling, and chatbot development. Created AI-driven solutions for data extraction, business intelligence, and workflow automation.

Projects

PAGE-Security

Created a cross-platform encryption/decryption tool with advanced security features against keyloggers in C++, WxWidgets, and Windows scripting.

IntelliLingua

Engineered a multi-AI tool for NLP and computational linguistics, enabling topic modeling, keyword extraction, moderation, translation, and real-time learning.

GitLab Profiles

Developed an AI-driven developer & contractor profile management system, integrating multi-agent NLP models for automated profile enhancement.

Timesheet System

Engineered a scalable time tracking system with RBAC access control, automated reporting, and project-based billing. Technologies: Prisma, TSOA, React, Nest, PostgreSQL.

Pipedrive Integration

Designed a custom CRM proxy to manage business deals, adding secure APIs, real-time tracking, and RBAC authentication. Technologies: APIs, Nest, PostgreSQL, Angular.

Infrastructure Academy

Gained expertise in Docker, Kubernetes, and cloud microservices, developing scalable, fault-tolerant distributed systems. Technologies: Linux, Kubernetes, K3s, Minikube, Docker.

Networking Academy

Mastered enterprise network virtualization using VyOS, configuring VLANs, firewalls, VPNs, and security policies. Technologies: Linux, VyOS.

Netwrix Automation

Built an enterprise-grade automation framework for Netwrix Stealth Audit, integrating GUI, database, PowerShell, and VM orchestration. Technologies: PowerShell, FlaUI, Python, Robot Framework, Azure DevOps, Terraform, Java.

SGG Data Migration

Led SGG DataGov.ro portal migration, automating interface reconstruction and data transfer using AI-powered agents. Technologies: Python, CKAN, DCAT, JINJA, CSS, JS.

Jira AI Ticket Support

Developed an AI-powered support ticket automation system, integrating multi-agent AI for classification, processing, and resolution. Technologies: Python, RagFlow, LLMs, Jira, NLP.

Technical Skills

Proficient In:

- Programming: Python, Java, C++, JavaScript, React, Rust

- Web Development: HTML, CSS, JavaScript, React, NestJS

- Cloud & DevOps: Azure, Docker, Kubernetes, Terraform

- AI & Machine Learning: NLP, Data Extraction, Text Mining, Multi-Agent Systems

- Automation & Scripting: PowerShell, Bash, Robot Framework

- Databases: PostgreSQL, MongoDB, MariaDB, Prisma

Basic Knowledge:

- SQL, Linux Administration, Git, Windows Scripting

Certifications
- Microsoft Certified: Azure AI Engineer Associate

Languages
- English (C2 - Fluent) - Romanian (Native)