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.

AFM - "rabla and fotovoltaice" program

Developed an ai powered documents processing pipeline in azure devops, developing custom ml models and term recognition and validation in documents, automated ai reporting and versioning. Technologies: Azure DevOps, C#, python, LLMs, Mls, NLP

IML

Developed an AI-powered speech to text app for doctors using multiple AI pipelines with fallback mechanism using NLTK, Azure speech services, whisper OpenAi, session management and api integration. Technologies: python, react, AzureSDK ,openai, sso

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)