

Mihai-Gabriel Ionita



Profile picture

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[Jul 6, 1980]

During my 20 plus years of experience as a software engineer, I have strived to improve my expertise in general-purpose programming (with emphasis on: telecom, civil engineering and more recently, AI) and integrate innovative solutions into my work.

Skills

pre-sales delivery system architecture & design team-leading programming teaching
microlith microservices llm ai devops databases containers linux systems administration
webservers application servers load/stress testing

Programming: Java, C, C++, Python, Erlang, Javascript, Spring, Micronaut, TestContainers, Boost, Langchain **Databases:** MySQL, Postgres, H2, sqlite, Cassandra, Oracle, SQL, CQL, GraphQL, OneNDS **Linux:** Alpine, RedHat, Debian, Wolfi **Documentation:** Markdown, ASCIIDoc, PlantUML, Mermaid **Scripting:** bash, AWK, Perl **DevOps:** Kubernetes, Docker, Terraform, Helm, Ansible, Crossplane, Openstack HOT, K3S, K3D, Skaffold, Vagrant **Private Cloud:** OpenShift, Openstack, Proxmox, VMWare **Public Cloud:** Azure, AWS **Monitoring:** Prometheus, Loki, Grafana, ELK, Micrometer, Open telemetry **Testing:** K6, JMeter, Postman/Newman **AI:** Azure Cognitive Services, Hugging Face, Mistral **Protocols:** REST, SOAP, HTTP, TCP, IP, ICMP, Diameter, WebRTC, SIP, Sigtran, SS7, JMX, LDAP, SNMP, SMTP, Syslog **Others:** Redis, Nix, ActiveMQ, dagger.io, Github actions, Azure pipelines, Gitlab CI/CD, XML, SAP-CC

Experience

Solution Architect, mindit.io

Mar 2024 - present, Bucharest, Romania

Presales (solution design, estimates) followed by proof-of-concept application development, as well as delivery (high level design, implementation, automated testing and deployment) activities. Team-leading (code review, support for team members).

- Incorporate AI driven solutions, to enhance customer-facing procedures within a B2B agency, ensuring a more responsive initial client experience.
- Create a scalable education management system with AI safeguarding features, enabling early detection of issue concerning the education process.
- Create multi-tenant RAG based chat-bots for websites, enabling a human-like interaction for the customers' usual queries.

Technologies used: multi-agent AI, Azure Cognitive Services, Azure Container Apps, Terraform, Java, Python, K6, Azure managed Redis, MySQL, bash

Solution Architect, RSystems

Dec 2020 - Mar 2024, Bucharest, Romania

Presales (solution design, estimates), delivery (from design to implementation and automated testing), support, team-lead and teaching activities.

- Created custom telecommunication messaging platform, designed to maintain synchronization across various systems, using multiple retry mechanisms, enabling data-driven decision making to personalize a customer's experience. Developed using microservices and deployed on Kubernetes. Example: being a subscriber to service A, allows you to consume a limited amount of service B, where A and B have different providers.
- Tier 3 support activities for containerized production systems, spread across multiple clusters

Technologies used: Java, Flight Recorder, ELK, Kubernetes, Helm, Skaffold, JMeter, Postman, bash, Spring, OpenShift, Alpine, RedHat, CI/CD pipelines

System Architect, RSystems

Apr 2012 - Dec 2020, Bucharest, Romania

- Improved B2B services platform, for a telecommunication operator, enabling automated charging and reconciliation.
- Created JAIN-SLEE based call-control solution, on private cloud infrastructure, for a telecommunication operator.
- Developed a comprehensive MVNO solution, ensuring fast time-to-market for a classic telecommunication operator's prepaid plans. The solution facilitated efficient charging, communication, and customer service, enabling the marketing department to come up with ever-changing customer offers.

Technologies used: Java, JAIN-SLEE, Rhino TAS, Erlang, SAP-CC, Openstack, Vagrant, Linux

System Integrator, RSystems

Aug 2011 - Apr 2012, Irving, Texas, US

- Integrated a AAA solution in a tier 1 US telecommunication operator's network.

Technologies used: OneNDS, OneAAA, LDAP, Diameter, Solaris

System Architect, Computaris

Dec 2008 - Aug 2011, Bucharest, Romania

- Created an integration platform between a telecommunication operator and third-party service providers based on a AAA (Authentication, Authorization, Accounting) platform, to create additional revenue streams.
- Created additional components for that platform, interfacing with LDAP and GreenPlum databases.
- Created a performance test suite, based on Apache JMeter.

Technologies used: Java, JMeter, OneNDS, OneAAA, LDAP, GreenPlum, Linux

Senior Software Engineer, Computaris

Mar 2007 - Dec 2008, Bucharest, Romania

- Customer base migration for a telecommunication operator, to a new provisioning platform,

without service disruption.

- Provisioning platform development for multi-national operator.

Technologies used: Java, Teligent P90

Software Engineer, [Computaris](#)

Mar 2006 - Mar 2007, Bucharest, Romania

- Developed an XML based platform for delivery of new telecommunication services, with very small time-to-market, including charging, provisioning and call-control capabilities.
- Ericsson Diameter charging SDK adaptation, for use in the XML based platform.

Technologies used: C++, Java, Diameter, XML, Linux

Research Engineer, [University of the Bundeswehr](#)

Aug 2003 - Mar 2006, Munich, Germany

Delivery (implementation and testing) and support.

- Developed a structural assessment application, using OpenCascade and Sofistik, integrated with wireless communication technology to facilitate real-time measurement input.
- Support activities during application field testing; gathering user feedback and real input data.

Languages

- Romanian: Native
- English: Full professional proficiency
- German: Limited working proficiency
- French: Elementary proficiency

Education

Bachelor in Engineering, [Politehnica University of Bucharest](#)

1998 - 2003, Bucharest, Romania

- Information Technology
- CCNA (Cisco Certified Network Administrator) studies

2003, Munich, Germany, [University of the Bundeswehr](#)

- Bachelors dissertation
- Erasmus student exchange program