

Mihai-Gabriel Ionita

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Over 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 **Linux:** Alpine, RedHat, Debian **Documentation:** Markdown, ASCIIDoc, PlantUML, Mermaid **Scripting:** bash, AWK, Perl **DevOps:** Kubernetes, Docker, Terraform, Helm, Ansible, Crossplane, Openstack HOT, K3S, K3D, Skaffold **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, Sigtran, SS7 **Others:** Redis, Nix, ActiveMQ, dagger.io, Github actions, Azure pipelines, Gitlab CI/CD

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.com

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 telecom messaging platform designed to maintain synchronization across

various systems, featuring multiple retry mechanisms for enhanced reliability. Developed using microservices and deployed on Kubernetes.

- 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.com](#)

Apr 2012 - Dec 2020, Bucharest, Romania

System Integrator, [rsystems.com](#)

Aug 2011 - Apr 2012, Irving, Texas, US

System Architect, [rsystems.com](#)

Dec 2008 - Aug 2011, Bucharest, Romania

Senior Software Engineer, [rsystems.com](#)

Mar 2007 - Dec 2008, Bucharest, Romania

Software Engineer, [rsystems.com](#)

Mar 2006 - Mar 2007, Bucharest, Romania

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