

Andrei Branga

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Profile

Senior Software Engineer and Cloud Solutions Architect with 8+ years of experience in the industry leading enterprise-scale software and AI cloud solutions. Delivered production-grade AI applications for reinsurance underwriting automation and led cloud migrations to Azure, modernizing legacy portfolios with CI/CD and infrastructure-as-code. Skilled in AI, cloud computing, microservices architecture, DevOps, and stakeholder collaboration. Offers proven ability to define and implement scalable, sustainable architectures that drive business value and technology evolution.

Education

2015 – 2019
Cluj-Napoca, Romania

Computer Science | Bachelor of Engineering
Technical University of Cluj-Napoca

2011 – 2015
Sibiu, Romania

Mathematics & Computer Science | High-School Diploma
Gheorghe Lazăr National College

Personal Projects

03/2025 – 11/2025

Co-Founder
OddsHaven

- Launched an AI-powered sports analytics SaaS focused on football betting: match insights, pick recommendations, and a parlay builder.
- Implemented an LLM-driven agentic system to explain reasoning, answer user questions, and personalize suggestions based on context and preferences.
- Designed the platform end-to-end (product, architecture, and delivery) with an emphasis on scalable cloud deployment and subscription monetization.

Professional Experience

04/2022 – present
Zurich, Switzerland

Senior Software Engineer & AI Cloud Architect
PartnerRe

- Led design and delivery of production-grade AI applications for Life & Health reinsurance, transforming concepts into secure, compliant solutions for underwriters and actuaries.
- Architected and built cloud-native microservices on Azure using .NET, Aspire and Azure services. Implemented distributed systems patterns for resilience and scalability.
- Developed large language model applications leveraging Azure OpenAI Service and OpenAI models; engineered prompt chains and agentic workflows integrating LLMs with retrieval-augmented generation, search, external tools, and data sources.
- Designed vector search solutions using Azure Cognitive Search and Azure Cosmos DB to enable semantic search over policy documents, claims, and medical data.
- Collaborated with data scientists, actuaries, and product owners to identify AI use cases; translated complex requirements into technical architectures delivering measurable business value.
- Led migration of legacy .NET applications to Azure, modernizing the portfolio with infrastructure-as-code, continuous integration/continuous deployment,

Professional Experience

06/2021 – 03/2022
Cluj-Napoca, Romania

and automated testing.

- Mentored engineers on cloud architecture, AI best practices, DevOps, and secure coding; led code reviews and enforced quality standards.
- Contributed to the organization's DevSecOps transformation building pipelines, defining testing frameworks and implementing developer tools.

Software Engineer Vertiv

- Developed high-availability software modules for data-center infrastructure management using .NET Core and microservices patterns, meeting stringent uptime and scalability requirements.
- Collaborated with cross-functional teams using Agile Scrum; participated in architecture discussions, code reviews and continuous improvement initiatives.
- Implemented RESTful APIs and background services, leveraging containerization and CI/CD pipelines in Azure DevOps.

11/2017 – 06/2021
Cluj-Napoca, Romania

Full-Stack .NET Software Engineer Instal Expert SRL

- Designed and built a comprehensive enterprise management system using ASP.NET MVC and Windows Forms to handle employee scheduling, client management, work orders, materials and inventory.
- Created an online B2B web store by integrating partner APIs; used DevExpress and DevExtreme for responsive UI and deployed the solution on Microsoft Azure.
- Architected a fleet management platform with a progressive web application (PWA) front-end and a Xamarin companion app for iOS and Android; implemented real-time notifications and geolocation features.
- Managed the full software lifecycle: database design, application architecture, deployment, monitoring and maintenance; introduced CI/CD practices and automated processes.
- Led a team of four developers, facilitating Agile ceremonies, mentoring junior engineers and ensuring successful delivery of projects.

07/2017 – 08/2017
Cluj-Napoca, Romania

.NET Junior Developer (Internship) Endava

- Completed intensive training in ASP.NET MVC, Entity Framework, JavaScript and SQL Server.
- Collaborated on the development of an online bookstore web application; designed database schema and implemented front-end and back-end components.

07/2016 – 08/2016
Cluj-Napoca, Romania

SAP ABAP Developer (Internship) MHP – A Porsche Company

- Developed back-end functionality for an internal employee skills and project management system using SAP ABAP and Web API technologies.
- Integrated new features with existing systems while adhering to established development standards.

Certifications

Microsoft Certified: Azure Developer Associate

Microsoft Certified: Azure Fundamentals

Microsoft Certified: Azure Database Administrator Associate

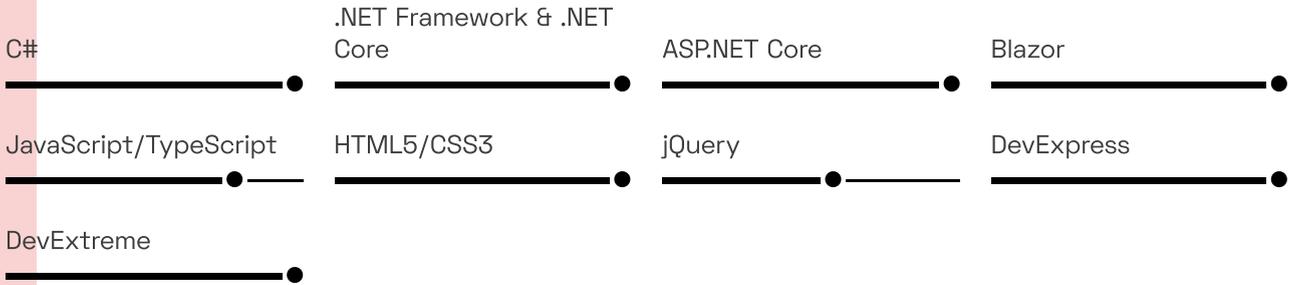
Cambridge English – Advanced (C1)

Oracle Academy – Database Design with SQL

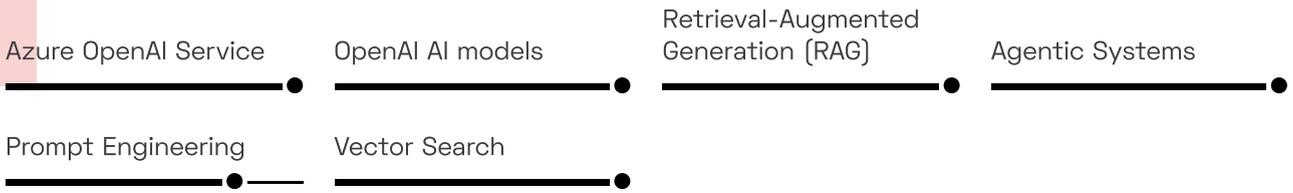
1st Place – Polihack v4.0 (Desktop Application)

 Key Skills

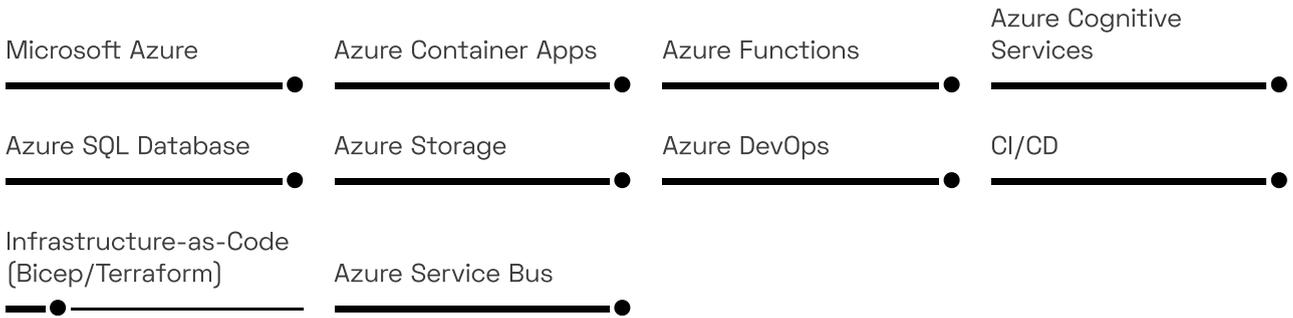
- PROGRAMMING & FRAMEWORKS



- AI & LLM TECHNOLOGIES



- CLOUD & DEVOPS



- DATABASES



- METHODOLOGIES

