

Bogdan Ioan Boboc

Software Engineer

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Work Experience

Software Developer

Soft-lab | 2019 – 2021

- Developed automation tools and web scrapers using **C#** and **Python**, delivering client-specific solutions.
- Designed and implemented **trading algorithms** with a focus on efficiency and performance optimization.
- Leveraged **threading** and **concurrency** to improve execution speed and resource management.
- Applied **socket programming** and **TCP/IP communications** for real-time data acquisition and networked applications.
- Gained extensive experience in **web scraping techniques** and data extraction from diverse online sources.

Software Developer Intern

Robert Bosch | Jul 2021 – Oct 2022

- Developed internal tools and client-facing applications using **C#**, enhancing functionality and reliability.
- Applied advanced software engineering concepts including **Dependency Injection**, **Service-Oriented Architecture (SOA)**, and **Database Normalization**.
- Collaborated in a mid-sized team of 5, supporting the Team Leader in **project coordination** and **team management**.
- Contributed to fostering a **collaborative work environment**, promoting team productivity and professional development.
- Gained hands-on experience in **software design, architecture, and interpersonal team dynamics**.

Software Engineer

Capgemini | Oct 2022 – Dec 2024

- Contributed to a **complex semiconductor-related project** involving multiple interconnected services and a sophisticated infrastructure.
- Worked across **Java**, **C**, **C++**, and **Python**, deepening expertise in **object-oriented design**, low-level systems, and **automation scripting**.
- Managed and navigated a **complex build system** using **Makefiles**, **Gradle**, and Python, ensuring smooth compilation and deployment of components.
- Gained extensive experience in **system integration**, understanding component interactions, and ensuring seamless data flow.

- Applied advanced programming principles to **design, optimize, and maintain critical software modules**.
- Enhanced adaptability to **diverse technological frameworks**, preparing for multi-language and cross-platform development challenges.

Software Engineer

Betfair | Nov 2024 – Present

- Working on a **mixed technology stack** with a **C++ backend** and a **Java middle tier (CDL/CLB)** acting as a proxy layer exposing API endpoints to the frontend.
 - Developed and maintained **Java components** for service integration, API exposure, and system communication.
 - Provided **C++ support** for investigations on an in-house messaging solution using rudimentary **topic-based mechanisms** for service-to-service communication.
 - Integrated a **new provider via MARS**, implementing their API in a conversion module called **adapter** and exposing it to external systems.
 - Collaborated on **multi-language, cross-component systems**, ensuring seamless data flow and stable communication between backend and middle-tier services.
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Education

AWS Certified Developer

- Skilled in developing, deploying, and maintaining cloud applications using AWS services such as **Lambda, API Gateway, S3, DynamoDB, CloudFormation**, and **CI/CD with CodePipeline/CodeBuild**.

Bachelor's in Control Engineering

UTCN

- Studied system automation and control theory with a strong foundation in **mathematics, programming, and electrical engineering**.
 - Designed and implemented an **automated fixed-wing aircraft controller** for mild wind conditions using **aerodynamic modeling, LQR control**, and system decoupling; simulated in **Matlab/Simulink** and deployed on **Arduino with C++**.
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Skills

- Team spirit, Autonomy, Initiative, Creativity, Ability to unite

Languages

- English (C1)
- German (B2)
- Romanian (native speaker)