

Dipl. Ing. Branimir Georgiev

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Profile

I'm a backend engineer with a strong foundation in **Python, Flask, and Docker**, complemented by hands-on experience in **C, Dart, and Flutter**.

At my core, I value engineering practices that emphasize **scalability, reliability, and maintainability**, and I thrive in environments where technology and **collaboration drive lasting impact**.

Beyond development, I bring practical experience in **CI/CD pipelines** across **GitLab and GitHub**, enabling smooth delivery workflows and dependable deployment processes. While I'm comfortable working across the stack, my core strength lies in **backend engineering and service design**.

Currently, I'm expanding my expertise into **Azure Cloud Platforms** and **Configuration Management** tools like **Ansible**—bridging the gap between **development and operations**. This growth reflects my passion for building not only great applications but also the **resilient, scalable infrastructure** that supports them.



Work History

04/2025 – PRESENT VARNA, BULGARIA

Senior Software Engineer Heidelberg Materials Digital Hub Varna

Tech & Tools

- Python, Azure, Docker, Git, GitLab, ElasticSearch, pytest, pydantic, arc42, JIRA, Confluence

Core Skills

- OOP, SOLID Principles, Design Patterns, Lean Agile Development, Technical Documentation

Key Achievements

- Developed and implemented agent-based ETL pipelines to transfer data from OT to IT systems, enabling seamless integration and improved operational visibility.
- Extended GitLab CI/CD pipelines to integrate



Work History

services for quality control, improving automation and reliability of releases

- Provided ongoing support for a legacy codebase, addressing bugs, refactoring relevant components, to meet evolving business requirements.
- Authored technical documentation in the arc42 format to improve maintainability and knowledge transfer.

2019 – 04/2025 VARNA, BULGARIA

Senior Python Developer Hilscher Development and Test Center

Tech & Tools

- Python, Docker, Git, SVN, JIRA, Confluence, Bitbucket, GitHub

Core Skills

- OOP, SOLID principles, Design Patterns, Software Architecture, Lean Agile Development, Technical Documentation, Mentoring

Key Achievements

- Authored production-quality industrial protocol libraries in Python (MQTT, DeviceNet, OpenModbus over TLS, etc.)
- Authored comprehensive and scalable test frameworks ensuring high quality products before system tests
- Refactored legacy code into a maintainable, scalable architecture by applying clean code principles
- Created and maintained training programs for new recruits, covering topics such as Python, OS, multi-threading, version control, and testing guidelines.
- Authored and maintained executive-level product documentation, ensuring clarity, alignment, and informed decision-making

2009 – 2019 DEVNYA, BULGARIA

Industrial Automation Engineer Solvay Sodi

Tech & Tools

- Siemens, Honeywell, Profibus, Profinet, Open Modbus, Matlab, SciLab, MiniTab, Java, Visual Basic, C#, Siemens SCL



Work History

Core Skills

- Process Automation with Siemens, ATEX/IECEX Compliance, Human-Machine Interfaces. Process Modeling and Optimization, PID setup and tuning, Advanced Process Control (APC)

Key Achievements

- Adapted Honeywell control blocks for use with Siemens S7 PLCs using Structured Control Language (SCL)
- Created real-time cooling towers simulation based on 1D Merkel models with own implementation of psychometric libraries in Visual Basic
- Implemented a Mamdani Fuzzy Logic Controller to optimize the production of carbonisation columns
- Automated a fly-ash installation in a boiler plant including HMI
- Automated a brine purification sector with Siemens PLCs including custom libraries in SCL and HMI
- Implemented tools to check and link P&ID diagrams using Visual Basic and Excel
- Implemented a custom logic to mitigate quality issues caused by flow transmitters that did not compensate for temperature above 37 degC

2005 – 2007 KARLSRUHE, GERMANY

Software Developer Intern X2E GmbH

Tech & Tools

- C, VHDL, Ruby

Core Skills

- OOP, Design Patterns, Automated Testing

Key Achievements

- Implemented MOST-protocol demonstration platform using VHDL and C
- Implemented a flash library for firmware updates using C and C++
- Implemented an automatic testing system for company products using Ruby



Education

2002 – 2008 KARLSRUHE, GERMANY

Systems Engineering | Diplom-Ing. (TH) Karlsruhe Institute of Technology (KIT)



Publications

Design and industrial implementation of fuzzy logic control of level in soda production Engineering Science and Technology, an International Journal

Snejana Yordanova, Milen Slavov, Branimir Georgiev.
Vol 23, Issue 3, pages 691-699

Parallel distributed compensation for improvement of level control in carbonization column for soda production Control Engineering Practice

Snejana Yordanova, Milen Slavov, Branimir Georgiev.
Vol 71, pages 53-60

Optimization of Parallel Distributed Compensation for Real Time Control of Level in Carbonization Column Automatic Control and Computer Sciences

Snejana Yordanova, Milen Slavov, Branimir Georgiev.
Vol 54, pages 379-390



Certifications

Certified SAFe 6 Practitioner Scaled Agile, Inc.

Issued Feb 2024 - Expires Feb 2025

11/2010

Experion PKS C300 Control Execution and Environment Experion PKS C300 Control Execution and Environment Training Center Prague

06/2010

S7PRO1 - Simatic S7 TIA Programming 1 Siemens Authorized SIMATIC Training Center Bulgaria

1726/2010

02/2011

S7PRO2 - Simatic S7 TIA Programmin 2 Siemens Authorized SIMATIC Training Center Bulgaria

1815/2011



Technical Skills

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|----------------------|----------|
| Software Engineering | Expert |
| Quality Engineering | Expert |
| Python Development | Expert |
| Docker Containers | Advanced |
| CI/CD Pipelines | Skilled |
| C, Dart | Skilled |



Professional Skills

Project Ownership
Documentation
Mentoring
Training

Expert
Expert
Advanced
Advanced



Languages

Bulgarian
English
German
French

Native
Professional
Professional
Limited