Grzegorz Bajson

Curriculum Vitae

Personal data

Nationality: Polish

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LinkedIn profile: https://www.linkedin.com/in/gbajson/ Homepage: https://gbajson.online

I am passionate about Linux and automation, with end-to-end troubleshooting skills.

20+ years of experience in Unix and Linux

15+ years of experience in Telecommunications

10+ years of experience in Software Development

5+ years of experience in Cloud technologies

Skills & interests

GenAI developer

I created a team of self-improving AI agents for code development (software and IaaS developers, QA testers, reviewers, code committer)
For the past year, I have been using LLM agents across the whole software development life cycle: orchestrating agent teams, writing code, end-to-end testing, automated bug reporting, and building entire CI pipelines.

Software Developer – Python, Go, Bash

I advised on suitable technologies, frameworks, and libraries and prepared good/bad practices documents for team members. I planned and successfully executed containerization of monolith systems and moved them to GCP/AWS/ Kubernetes to speed up and ease the releases and increase scalability.

I designed new features in existing products; evaluated data model, REST API, security and performance impacts and planned appropriate test scenarios/strategies.

DevOps / Cloud Automation

I designed and implemented automation pipelines and frameworks as Infrastructure as Code. Technologies: AWS, GCP, Kubernetes, Docker, Terraform, Ansible, Vagrant, OpenStack.

Troubleshooter

I like to conduct investigations in all kinds of components of modern applications. On all levels of modern application stacks: cloud providers and Kubernetes,

- OS (strace, ltrace, perf, gdb)
- networking (tcpdump, Wireshark, netstat),
- databases (explain/execution plans).

Rule #1: Still not sure what the problem is? Go deeper in the technology stack!

Data analysis: Python/Pandas/TensorFlow, Jupyter Notebooks with visualization libraries, Awk and Perl, neo4j.

Education

2002-2004	**Warsaw University of Technology** **M.Sc. in Computer Science** Faculty of Electronics and Information Technology (EiTI) The Institute of Computer Science Software Engineering and Computer Architecture Division Thesis title „SSL proxy integrated with LDAP directory services”
1998-2002	**Warsaw University of Technology** **B.Sc. in Computer Science** Faculty of Electronics and Information Technology (EiTI) The Institute of Computer Science Software Engineering and Computer Architecture Division Thesis title „Tools for LDAP directory services”
1994-1998	**High School in Kozienice in math-physics profiled class**

Languages

- Polish – native
- English – full professional proficiency

Work experience

BI Zone Grzegorz Bajson

Software Engineer, Contractor

Building software for fun and, sometimes, for profit.

Recent projects:

- **Robbo** – https://robbo.gbajson.online/
  A platform for delegating typical computer work to be executed in batches. Everything runs in the cloud. You sleep, Robbo clicks.
  Technologies: Go, Kubernetes, GenAI, X server, GPU, Docker, Automation, Bot detection
- **Webscribe** – https://webscribe.gbajson.online/
  A platform for fast and cost-effective screenshot description. It describes what is on the page in a structured way.
  Technologies: Python, OpenCV, OCR

Since 2025 **Pegasystems**

Senior Principal Software Engineer, GenAI Engineering

Main technologies: Go, Terraform, AWS, GCP, Claude Code, OpenCode, SpecKit, API conversions

I am a core developer of the GenAI Gateway proxy server for calling LLMs in Azure, AWS Bedrock, and GCP Vertex AI.

My achievements:

- Reduced memory footprint of GenAI Gateway by implementing caching of auth tokens and LLM model metadata
- Refactored the application to separate code from configuration and model metadata
- Found and fixed memory leaks
- Created AI agents for code development (orchestrator, developers, testers performance and security reviewers, and finally git committer)
- Created pre-commit hooks to limit costs of development agents
- Built a live-LLM test environment adopted by other developers, eliminating LLM metadata bugs.
- Built an interactive terminal-based tool to manage our cloud infrastructure and Kubernetes applications, reducing manual setup effort by 10×.
- Prepared setup for VS Code for debugging GenAI Gateway on our laptops
- Integrated Realtime (Voice) models into GenAI Gateway (WebSockets, SDP handshakes)
- Worked directly with Operations to develop customized solutions for chosen clients (AWS EUSC, Realtime models)

Company size: 6000 **Team size**: 5

2022-2025 Area22

Python/Go developer, DevOps Engineer, Data analyst

My achievements:

- Sliced a monolithic PoC Python application into microservices and migrated it from VMs to containerized solutions in GCP and AWS (Kubernetes and serverless).
- Migrated the network layer of our application from Python to Go (WebSockets + Protobuf) and developed corresponding Python libraries. This allowed developers to continue using Python for business logic while making the application more robust.
- Created internal libraries for logging, authentication, and test execution, which are used across the development teams.
- Introduced pre-commit hooks, linters, enforced type annotations and Pydantic schemas. This eliminated almost all type/key/attribute errors from QA and production.
- Built Kubernetes-based development environments for a system too large to run locally. Developers now code in IDEs on their laptops while the application runs directly in Kubernetes Pods, reducing environment setup time from days to minutes.
- Designed and executed performance tests, identified bottlenecks, and reimplemented a synchronous PoC application as an asynchronous one, reducing overall cloud costs by a factor of 10.
- Defined Infrastructure-as-Code manifests from scratch for both the platform (Terraform) and application (Kubernetes).
- Designed and implemented CI/CD pipelines in Area22 from the ground up, using GitHub Actions for container builds, SCA & SAST checks, and testing in dedicated CI environments.
- Analyzed large film datasets (20M nodes / 200M relationships in a graph) to identify similarities between movies using Neo4j, TensorFlow, k-nearest neighbors, and cosine distance methods. Used these insights for A/B testing and optimized the code to significantly reduce cloud costs.

Company size: 25

Main technologies: GCP, AWS, Kubernetes, Docker, Python (FastAPI, TensorFlow, async),Go (WebSockets, protobuf), GitHub Actions, MongoDB, Neo4j, Terraform

2021-2022 Ammeon (acquired by intive) / Ericsson

Software Developer

My role in team:

- Design of new internal Ericsson tools for CI/CD
- Development of internal tools to assure compliance of CI/CD processes across ~50 development teams
- Code reviews
- Guidance for Junior- and Mid- engineers

Team size: 8 engineers

Main technologies: Python (FastAPI), Jenkins, Kubernetes, Helm, Gerrit

2020-2021 Samsung R&D Institute

Staff Engineer in Network Cloud department

Member of "*Containerized Samsung OpenStack (CSO)*" project.

CSO offers up to 25% performance gain in 5G applications in comparison to standard OpenStack, mostly due to optimizations in LibVirt.

My role in the team:

- Design and development of new OpenStack features (preparation of REQs and SPECs)
- Analysis of changes between OpenStack releases
- Maintainer of Nova repository (compute service for OpenStack)
- Code reviews (Python/Ansible)
- Implementation of new OpenStack features - improvements in compute service Nova
- Design and initial implementation of automated development environments for team members and CI.

Team size: 30 engineers

Main technologies: OpenStack, Docker, LibVirt, Python, Ansible, Git, Gerrit

2019-2020 Ammeon / Ericsson

DevOps Engineer

Member of the Ericsson's project team to deliver EDP (Ericsson Deployment Pipeline) for ENM (Ericsson Network Manager).

My role in the team:

- Design and implementation of Ansible playbooks for ENM deployments and upgrades
- Code reviews (Python, Ansible, Bash)
- Building CD solution for ENM (using Spinnaker in Ericsson's Kubernetes cluster)
- Integration with CI (Jenkins, Docker, Ansible) for various versions of ENM (Small Integrated ENM (VMware), ENM on Cloud and ENMaaS)

Main technologies: Ansible, Python, Docker, Ericsson's Kubernetes, Helm, Spinnaker, Jenkins, Git Gerrit

2018 – 2019 Ammeon / Ericsson,

Cloud Integration Engineer

Member of the project ENMaaS (ENM-as-a-Service) – ENM on Cloud running in private OpenStack cloud.

My role in the team:

- Code development for ENM upgrades (Python)
- Product documentation analysis (ENM on Cloud, VNF-LCM) and identification stories for sprints
- Code reviews (Python)
- Bug investigation in our and third-party code (ENM) ·Performance problems investigations

My achievements:

- Applied best practices and design patterns to develop readable, re-usable and maintainable code for automation framework
- Identified and proactively fixed several security issues in the existing code
- Extended our procedures to use linting tools (pylint, pycodestyle, bandit)
- Designed and implemented automated fixture preparation for Unit Tests
- Developed internal procedures to measure Unit Test coverage
- Migrated Unit Tests from nose to pytest
- Refactored existing modules, reduced existing code base by 30% and simplified function APIs
- Applied changes in the Way of Work procedure to reduce the number of bugs and eliminated a few classes of bugs (syntax errors, unhandled exceptions, changes in ENM on Cloud interface)

Main technologies: Python, Ericsson Network Manager (ENM), Pytest, Docker, OpenStack, Git, Gerrit, Jenkins

2013-2018 IBM / The Now Factory

Senior Operations Engineer

On-site deployments of network analyzers and CEM Solution for Telco operators (Vantage,

Sourceworks, CAN). I participated in projects for: T-Mobile Austria, T-Mobile Germany, Optus Australia, Smile South Africa, T-Mobile Netherlands, Everything Everywhere UK, TMobile Croatia, Telus Canada, Telefonica Mexico, Vodafone India, Vodafone Spain.

Main responsibilities:

- Responding to client requests – script customizations, configuration changes, ad hoc reports, integration of Vantage with third-party tools and systems
- Automation of standard tasks and reports
- Hardware deployments on-site
- Analysis of Telco data (feeds) – mostly Gn and LTE
- Development of new tools (e.g. proxy server to translate XML requests to REST)
- Troubleshooting - OS, networking, databases, logs, statistical methods, anomalies detection

Main technologies: GSM/UMTS/LTE, Linux, Oracle, Hadoop, Python, bash, Perl, Awk, automation tools, tcpdump & wireshark, gdb, perf

2007-2013 Tektronix Communications / Arantech

Senior Operations Engineer

On-site deployments of CEM solutions (Touchpoint) for Telco companies, mostly for Vodafone and T-Mobile groups - close interaction with the customer & rich experience in on-site work.

- Responding to client requests – script customizations, configuration changes, ad hoc reports, gathering change requests, integration with third-party tools and systems
- Leading Touchpoint trainings - both long scheduled sessions as well as ad-hoc trainings to fill knowledge gaps.
- On-site support – initial investigations, handling issues to main support & engineering teams in Dublin
- Debug of ETL processes (pcap, xml, Oracle PL/SQL, Bash/Python/Awk)
- Creation of Business Objects reports
- Analysis of GSM / UMTS data
- Troubleshooting and fixing Unix/Oracle/GSM related problems

Main technologies: tcpdump/snoop, wireshark, protocol analyzers, performance monitors,

I worked for the following Telco operators: Vodacom (Cape Town), Vodafone D2

(Dusseldorf), Vodafone Czech (Prague), Vodafone Italy (Ivrea, Milano), Swisscom (Bern),

Vodafone Netherlands (Maastricht), Vodafone Turkey (Istanbul), T-Mobile Croatia (Zagreb,

Zadar), Vodafone New Zealand (Auckland), T-Mobile Poland (Warsaw), Vodafone Egypt

(Cairo), Vodafone Ireland, Vodafone Spain (Madrid), Vodafone UK, O2 UK, T-Mobile DE, TMobile UK, Vodafone Albania, Vodafone Romania, Safaricom (Johannesburg)

Tools & technologies: tcpdump/snoop, Wireshark, protocol analyzers, performance monitors, OS tools, Business Objects

2005-2007 Hewlett-Packard,

Global Delivery Application Services

Data Warehouse Tower, ETL Team (Extract Transform Load) **Senior Software Developer**

- 3rd level 24x7 on-call support, the last and most technical level, of the Data Warehouse for Procter & Gamble (shell, C, PL/SQL, Perl, Control-M)

- Development of functional building blocks of DWH (oracle/unix/Control-M)
- Change implementation of DWH applications (backend)
- Administration of the test environment for development team (Linux/Windows)

2005 **Citibank**

Technical Control Unit, Unix Security Engineer

- PowerPack and BOKS logs checks for HP-UX, AIX and Solaris machines, focused on security issues
- Audits against security related issues
- Development of effective log checking procedures and tools
- Entitlement reviews

2004 **Zalco**

Unix/Network Administrator

2002-2004 **National Institute of Telecommunications**

R&D Team (IT in Telecommunications)

C/Perl Developer

2001 **Art-Technology**

Wi-Fi network administrator

I hereby authorize you to process my personal data included in my job application for the needs of the recruitment process (in accordance with the Personnel Protection Act 29.08.1997 no 133 position 883).