

BAHRUZ AGHALAROV

Results-driven Software Engineering Team Lead

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CORE COMPETENCIES

- Software Development
- Programming
- Network Design/Administration
- Backend Development
- Data Analytics and Reporting
- Requirements Analysis
- Testing/QA/Rollout/Support
- Team Building
- Client Relations & Presentations
- IT Project Management
- Automation Test Engineering
- Web Development
- Front End Development
- Project Architecture
- Coding and Scripting
- Deployment
- Object-oriented software design methodologies
- User-oriented interface design
- Software Testing and QA

TECHNICAL SKILLS

- **Tools:** BI, Cloud technology, AWS, GCP, Azure, web3, Foundry, Hardhat
- **Databases:** PostgreSQL, MongoDB, Oracle, MS-SQL Server, DynamoDB, Neo4j, Redis
- **Languages:** Python 3, Bash, Go(lang), Node.js, Solidity
- **Frameworks:** Django, Django REST framework, Flask, FastAPI
- **Environments:** Docker, Kubernetes, AWS EC2, AWS IAM service, UNIX/Linux,
- **Methodologies:** Agile, Scrum, Kanban

PROFESSIONAL PROFILE

Dynamic and Results-Driven Software Engineering Professional with 7+ years of comprehensive experience in leading full lifecycle software development projects. Proven expertise in overseeing all phases of project development, including business requirement gathering, system analysis, documentation, quality assurance, and deployment. Demonstrated ability to lead and mentor teams, manage complex software development tasks, and deliver high-quality solutions in diverse technical environments. Skilled in application development, data migration, and system upgrades, with a strong focus on achieving operational excellence and meeting project objectives. Known for fostering collaborative team dynamics, ensuring effective communication, and implementing best practices to enhance software engineering processes and drive successful project outcomes.

WORK EXPERIENCES

Tech Lead/Senior Backend Engineer (Python)

Sep 2021 – Present

Crystal Blockchain (Remote Contract Work)

Amsterdam, North Holland, Netherlands

- **Backend Feature Development:** Designed and implemented efficient backend features using Python and Go within Dockerized environments, driving performance and scalability.
- **Cross-Functional Collaboration:** Partnered with cross-functional teams including QA, Product, Frontend, and Backend to ensure seamless integration and high-quality software delivery.
- **Code Review & Quality Assurance:** Conducted in-depth peer code reviews, focusing on code modularity, scalability, and adherence to best practices to maintain high development standards. Delivered feedback on structure, logic, and performance.
- **Technical Documentation & Architecture:** Developed and maintained comprehensive technical documentation, improving product architecture clarity and ease of knowledge transfer across teams.
- **Troubleshooting & Issue Resolution:** Diagnosed and resolved complex technical issues during development, ensuring timely resolution and minimizing project downtime.
- **Cloud Infrastructure Management:** Optimized cloud infrastructure using AWS tools and separated services into independent repositories to enhance project scalability and maintainability.
- **Strategic Decision-Making & Critical Thinking:** Applied critical thinking and problem-solving skills to design and implement high-performance solutions, consistently enhancing project outcomes with well-judged technical decisions.
- **Software Development Lifecycle:** Actively participated in all phases of the software development lifecycle, from requirements gathering and analysis to design, implementation, and testing.
- **Comprehensive Testing Strategies:** Implemented and managed comprehensive testing frameworks, including unit, functional, and end-to-end testing to ensure feature reliability and system robustness.
- **Mentorship & Team Development:** Served as a technical mentor, providing leadership, guidance, and support to junior developers, fostering their growth and promoting technical excellence within the team.

Technologies: Python 3.X, Amazon Web Services (AWS). Solidity, Block, Go (Programming Language), Ethereum, Test-Driven Development, Mentoring, & Technical Lead.

WORK EXPERIENCES (CONT'D)

Software Engineer

Apr 2021 – Aug 2021

Bolt

Estonia

- **Backend Development:** Designed and maintained the server-side logic, APIs, and databases that powered the Bolt application. This included working with technologies and frameworks like Node.js, Python, or Java, and ensuring high performance and scalability of services.
- **Frontend Development:** Developed and optimized the user-facing elements of the Bolt application, whether for the mobile app or web interface. This involved working with frameworks like React Native, Flutter, or Swift, and ensuring a smooth and intuitive user experience.
- **Infrastructure Engineering:** Built and managed the systems that supported the deployment and operation of Bolt's applications. This included working with cloud services (like AWS or Google Cloud), containerization (using Docker or Kubernetes), and ensuring high availability and reliability of infrastructure.
- **Data Engineering:** Designed and implemented systems for collecting, processing, and analyzing large volumes of data. This role involved working with data pipelines, databases, and tools for data analysis to support business decisions and optimize operations.
- **DevOps Engineering:** Focused on the integration and deployment processes to ensure that software updates were delivered efficiently and reliably. This included automating deployment processes, monitoring system performance, and addressing issues that arose in the production environment.

Technologies: *Agile Development, Microservices, & Grafana*

Senior Software Engineer

Oct 2017 – Feb 2021

Sumaks

Baku, Azerbaijan

- **Backend Development & System Architecture:** Engineered GPS tracking software with Django/Python in a Dockerized environment, ensuring a robust and scalable system architecture.
- Administered PostgreSQL databases and data warehouses (DB/DWH) to maintain data accuracy and enhance performance.
- **Frontend Development:** Created and deployed user-friendly, responsive interfaces with HTML and CSS, ensuring an optimized and consistent user experience.
- **Application Monitoring & DevOps:** Implemented Sentry for proactive application tracking and error management, maintaining high uptime and reliability.
- Employed GitLab for source control and continuous integration/continuous deployment (CI/CD) pipelines, streamlining automated testing and deployment workflows.

Technologies: *Gitlab, DWH, CI/CD, Postgres, & Django*

OSS Engineer

Aug 2018 – Dec 2019

Azercell Telecom LLC

Azerbaijan, Baku

- **Network Management and Monitoring:** Oversaw the telecom network's performance and health by using various OSS tools and systems. This included real-time monitoring, troubleshooting network issues, and ensuring optimal network performance and availability.
- **Configuration Management:** Managed and maintained network configurations, including the setup and adjustment of network elements and services. This role involved ensuring that configurations were consistent, secure, and aligned with operational standards.
- **Fault Management:** Identified, diagnosed, and resolved network faults and issues. This included working with fault detection systems to quickly address any disruptions in service and minimize downtime.
- **Performance Management:** Analyzed network performance metrics to identify areas for improvement. This involved generating performance reports, analyzing trends, and making recommendations to enhance network efficiency and capacity.

Technologies: *Agile Development, Microservices, & Systems Design*

Software Development Engineer

Oct 2017 – Aug 2018

Central Bank of the Republic of Azerbaijan

Baku, Azerbaijan

- **Software Development and Maintenance:** Analyzed, developed, and maintained software solutions to support internal units, ensuring alignment with organizational needs and performance standards.
- **Coding and Implementation:** Wrote and optimized code using PL/SQL, HTML, and JavaScript to develop robust and efficient software applications.
- **Requirements Gathering and Communication:** Collaborated with internal stakeholders and business analysts to gather and document project requirements, and effectively communicated project specifications to ensure clear understanding and alignment.

WORK EXPERIENCES (CONT'D)

- **Software Delivery Lifecycle Participation:** Engaged in all phases of the software delivery lifecycle, including requirement analysis, design, coding, and integration testing with Temenos and Corvus systems, following the launch of the software.
- **Project Management and Quality Assurance:** Delivered assigned tasks within specified timelines while adhering to required quality standards, ensuring successful project completion and stakeholder satisfaction.

Technologies: *Systems Design*

Bank of Baku OJSC

Agha-Nemetulla 63/65

Senior Technical Expert

Jul 2017 – Oct 2017

- **Extending Banking Software Modules:** Designed and implemented enhancements to existing banking software modules to meet evolving business requirements and improve system functionality.
- **Automation of Banking System Processes:** Developed and deployed automated solutions to streamline banking system processes, increasing operational efficiency and reducing manual intervention.
- **Credit Data Management:** Managed the upload of credit data to the Credit Control Registry (CCR), ensuring accuracy and compliance with regulatory requirements.
- **Database Troubleshooting:** Diagnosed and resolved issues related to databases, ensuring minimal disruption to banking operations and maintaining data integrity.
- **Solution Development and Implementation:** Identified client needs and requirements, developed tailored solutions, and implemented them to address specific business challenges and enhance system performance.
- **Banking System Problem Resolution:** Addressed and resolved issues within banking systems, including e-banking, cash-in, and SMS banking platforms, to ensure seamless service delivery.

Technical Support

July 2013 – July 2017

Baku, Azerbaijan

- **Support of Automated Banking Systems:** Provided ongoing support and maintenance for automated banking systems, ensuring their reliability, performance, and alignment with operational requirements.
- **Evaluation of Oracle Features and Products:** Assessed and evaluated Oracle features and related products to identify their suitability for enhancing banking operations and integrating with existing systems.
- **Bank Client Account Operations:** Managed operations related to bank client accounts using RS (program software), ensuring accurate processing and management of client transactions and information.
- **User Permissions Management:** Administered database security by granting or revoking user permissions, ensuring appropriate access control and protecting sensitive data.
- **Bank System Problem Resolution:** Diagnosed and resolved issues within the bank's systems, ensuring minimal disruption to services and maintaining operational efficiency.

Programmer

Jun 2009 – Jul 2009

Azerbaijan National Academy of Science, Institute of Cybernetics

Baku

- **Code Analysis and Fault Reporting:** Analyzed code to identify and report faults, ensuring the reliability and functionality of software systems. This involved debugging, testing, and documenting issues to facilitate timely resolution.
- **Project Collaboration:** Worked collaboratively with team members to complete projects, contributing to various phases of the project lifecycle and ensuring effective communication and coordination.
- **Multilingual Programming:** Developed and implemented solutions using at least two programming languages, demonstrating versatility and proficiency in multiple coding environments.
- **Portfolio Investigation for International Grants:** Investigated and evaluated portfolios seeking international grants, assessing their potential for funding and alignment with grant criteria.

Contributed to an Open Source Project (Web3 Library) and below are the Open Source Contribution Links:

- <https://github.com/ethereum/web3.py/issues/2662>
- <https://github.com/ethereum/web3.py/issues/3384>
- <https://github.com/ethereum/web3.py/issues/1871>

QUALIFICATIONS

- Bachelor of Computer Science - Azerbaijan State Oil Academy, Baku, Azerbaijan Sep 2007 - Jul 2011
- Go: The Complete Developer's Guide (Golang) - Udemy Sep 2023 - Nov 2023
- Learn Solidity - Alchemy Nov 2023 - Feb 2024
- Ethereum Developer Bootcamp - Alchemy Feb 2024 - Apr 2024
- Critical Thinking - LinkedIn, Udemy Apr 2024 - Apr 2024