Sultan Umarbaev

(+996) 505 298 870 | (+996) 554 533 588
0x5bjorn.github.io Gmail GitHub LinkedIn

SKILLS

Current personal activities

- Graphics programming with OpenGL and C++
- Rust programming language

General Experience

- Web application backend development in microservice architecture using Spring Boot, RabbitMQ, GraphQL, RESTful API
- Version Control with Git
- Docker/Docker Compose deployment
- Gitlab CI/CD configuration
- Comfortable with Linux systems
- Basic TUI programs/tools development using Rust with Ratatui
- Basic desktop application development using C++ with ImGui or Rust with egui
- Linux loadable kernel module (LKM) development using C
- Basics in Computer and Network Security, Database Management, Computer Graphics, Embedded Systems, Machine Learning

WORK EXPERIENCE

OJSC Optima Bank September 2022 - Present
Back End Developer, Software Development Management Bishkek, Kyrgyzstan
Microservices, Java, Spring Boot, PostgreSQL, GraphQL, RabbitMQ, REST APIs, Docker, Gitlab CI/CD, Grafana, Redis

- Worked on project - Optima Business (OB), remote banking system for legal entities
- Developed integral components of the OB (microservice architecture): business and validation rule engine service for payments, template-based document generation service, service for importing payments using 1C files, payment monitoring service, etc.
- Contributed on the development and maintainment of the main payment service in OB project
- Created PostgreSQL functions/stored procedures such as payment search with filters, pseudo-unique document number generation, etc.
- Assisted in configuring and setting up early versions of Gitlab CI/CD processes
- Assisted our DevOps engineer in maintaining and monitoring system infrastructure
- Performed research works on topic of Electronic Digital Signature specifically Rutoken technology and Simple Certificate Enrollment Protocol(SCEP)

FinanceSoft May 2022 - July 2022 (3 mth.)
Full Stack Developer Bishkek, Kyrgyzstan
C#, .NET Core, Typescript, Angular, MSSQL, Transact-SQL

- Worked on projects: Loan Conveyor, Central Back Office(CBO)
- Performed the detection and fixing of the bugs/errors on the front-end and back-end of the existing conveyor
- Conducted the maintenance and upgrading of the existing features
- Implemented and added new components and features to a new conveyor for a new client according to the project requirements

- Performed project updates on the test servers

National Academy of Sciences of Kyrgyzstan December 2019 - May 2020 (6 mth.)
Part-time Engineer, Institute of Automatics and IT Bishkek, Kyrgyzstan

C/C++ with Arduino, Mosquitto, Telegraf, InfluxDB, Docker

- Worked on the project of developing a prototype of air pollution monitoring system for Bishkek
- Conducted market research on transceivers and sensor devices
- Implemented early version of data management architecture using Mosquitto, Telegraf, InfluxDB, Grafana and Docker technologies
- Implemented basic mesh network using NodeMCU devices (with ESP8266 WiFi chips) to transmit data between nodes and store it in database

EDUCATION

Sapienza University of Rome 2020 - 2022 (Not Completed)
MS in Engineering in Computer Science Rome, Italy

- **Completed courses:** Algorithm Design, Distributed Systems and Computer and Network Security, Network Infrastructures, Formal Methods, Embedded Systems, Machine Learning, Software Engineering, Data Management
- **Covered courses:** Advanced Operating Systems and Virtualization, System and Enterprise Security, Computer Systems and Programming, Security Governance, Web Security and Privacy

American University of Central Asia 2016 - 2020
BA/Bachelor of Software Engineering Bishkek, Kyrgyzstan

PROJECTS

Simple DLL injector with GUI (dll-inj) | *C++14, ImGui* post link
in development

- Implemented a simple DLL injector with GUI for educational purposes only

User Mode thread Scheduling (UMS) for the Linux distribution | *C, Make, Doxygen* post link

- Implemented UMS kernel module in C programming language that allows programs in the user mode to schedule their own threads without involving the kernel scheduler
- Implemented UMS library in C programming language which allows to use the implemented UMS mechanism
- Documented the code of the project using Doxygen, an automation tool for generating the documentation
- Wrote a report briefly describing the project results, AOSV-project report