SULTAN UMARBAEV

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EDUCATION

Sapienza University of Rome *September 2020 - January 2022*
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

SKILLS

Programming Languages knowledge:	**Average:** C++, C, Java **Basic:** Rust, Assembly, C#, Python, SQL
Frameworks knowledge:	Spring Boot, GraphpQL
Software & Tools:	Git, Docker, Docker Compose, Make, CMake, Postman, PostgreSQL, RabbitMQ
Operating Systems/Environments:	Unix/Linux, Windows

WORK EXPERIENCE

OJSC Optima Bank Bishkek, Kyrgyzstan
Software Development Management
Java Spring Boot Developer *September 2022 - Present*

- Worked on project - Optima Business (OB), remote banking service system for legal entities
- Developed integral components of the OB project (microservice architecture) - business and validation rule engine service for payments, service for generating payment documents from templates, service for importing payments using files with custom formats, etc.
- Wrote and optimized functions/stored procedures in PostgreSQL - search with filtering, unique document number generation based on requirements
- Contributed on the development and maintainment of the payment service in OB project
- Assisted in configuring and setting up early versions of Gitlab CI/CD processes
- Assisted in maintaining some infrastructure related tasks

FinanceSoft Bishkek, Kyrgyzstan
Full Stack .NET Developer *May 2022 - July 2022 (3 mth.)*

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

- 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

PROJECTS

Simple DLL injector with GUI (dll-inj)
in development
Tech stack: C++14, ImGui
Link: github.com/0x5bjorn/dll-inj

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

System Info visualizer (si-vis)
in development
Tech stack: Rust
Link: github.com/0x5bjorn/si-vis

- Implemented a simple system info visualizer written in Rust for educational purposes only

User Mode thread Scheduling (UMS) for the Linux distribution
Tech stack: C, Make, Doxygen
Link: github.com/0x5bjorn/AOSV-project

- 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, github.com/0x5bjorn/AOSV-project/blob/master/doc/report.md