

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

Frameworks knowledge:

Basic: Rust, Assembly, C#, Python, SQL

Average: Spring Boot, GraphQL

Basic: Django, Flask, .NET Core, Entity Framework

Software & Tools:

Git, Docker, Docker Compose, Make, Postman, PostgreSQL, RabbitMQ

Operating Systems/Environments:

Unix/Linux, Windows

Languages:

Russian, English

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

- 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

User Mode thread Scheduling (UMS) for the Linux distribution

Tech stack: C, Make, Doxygen

Link: github.com/umarbaev-S/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/umarbaev-S/AOSV-project/blob/master/doc/report.md

NewsApp

Tech stack: Python(3.8), Django(4.0), PostgreSQL, Docker, Docker Compose

Link: github.com/umarbaev-S/NewsApp

- Implemented simple news web application, using Python programming language and Django framework, which displays recently uploaded news and provides basic authentication and authorization functionalities
- Used Docker Compose technology to run NewsApp and PostgreSQL as separate containers in any environment
- Wrote a User Guide,
github.com/umarbaev-S/NewsApp/blob/main/SibersAssignment_user_guide.pdf