

# 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:

**Average:** Spring Boot, GraphpQL

**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 (remote banking service system) for legal entities
- Developed integral components of the system (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 functions/stored procedures in PostgreSQL - search with filtering, unique document number generation base on requirements
- Contributed on the development and maintainment of the payment service
- Assisted in configuring and setting up early versions of Gitlab CI/CD processes

### FinanceSoft

Bishkek, Kyrgyzstan

Full Stack .NET Developer

May 2022 - August 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

**Zensoft**

Bishkek, Kyrgyzstan

*QA engineer, Intern*

*June 2019 - July 2019 (1 mth.)*

- Learnt basic concepts of QA testing(positive/negative testing, Test pyramid, PageObject pattern)
- Set of technologies used are Java programming language with JUnit, Selenide, REST-assured library, Allure
- Worked with team of interns on the development of ZenFood project for Zensoft employees (testing was conducted alongside the development process)
- Performed positive and negative testings on both front-end and back-end parts of the ZenFood project using UI and Interactive tests

## **PROJECTS**

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### **User Mode thread Scheduling (UMS) for the Linux distribution**

*Tech stack: C, Make, Doxygen*

*Link: [github.com/umarbaev-S/AOSV-project](https://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](https://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](https://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](https://github.com/umarbaev-S/NewsApp/blob/main/SibersAssignment_user_guide.pdf)