Ivan Martysevich

20 y.o, Student, Embedded / System Software Engineer.

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EDUCATION

Poznan University Of Technology — *Electronics & Telecommunications (3rd year)*

October 2023 - Present

Related courses: Electrical Circuits, Signal Theory, Digital Signal Processing, **Digital Systems Design (Logic Gates, (T)MUX's)**, **Microprocessors (ASM: 8051, ARM)**, **Programmable Digital Circuits (Verilog (HDL))**, Programming courses.

PROJECTS & WORK EXPERIENCE

UAV Simulator — *Developer in an academic team.*

Developed a high-performance, multi-layer simulator for UAV communications, focusing on fronthaul/backhaul modeling, energy consumption, and Deep Learning integration. Optimized computationally intensive modules, achieving a **250% performance boost** by identifying bottlenecks and implementing NumPy vectorization. Acted as a **Repository Maintainer**: established **CI/CD** pipelines, enforced **linter** policies, and managed the codebase on GitHub. Collaborated in an **Agile (Scrum)** environment using **Jira** to streamline development and team coordination.

ChatKeeperBot (@ChatKeeperBot) — *support volunteer*

3 years of experience

Collaborated within a volunteer team to provide support for users of a Telegram bot designed to moderate content, including filtering NSFW language and images as well as preventing spam advertisements in Telegram groups. Directly engaged with customers, utilizing specialized systems to address inquiries and resolve technical issues, including assistance with configuration and troubleshooting.

TikTok Inline Bot (@tikdobot)— *telegram video downloader*

Telegram bot created to download videos (using Inline mode). Supports TikTok, VK Shorts, YouTube Shorts, Instagram Reels. This project involves knowledge of Telegram Bot Api, Queues, and Reverse Engineering. Written in Python.

SayoLi — *discord bot for private server*

Discord bot created to improve user experience from private discord server. This project involves knowledge of Discord Api, SQL. Written in Python.

SKILLS

Verilog, ASM (8051, ARM)

Python, C/C++, Golang

Docker

Redis, RabbitMQ

MySQL, SQLite, PostgreSQL

FastAPI, Django, Aiogram

Grafana, **Numpy**

Git, Bash

SCRUM (Jira), CI/CD.

Microcontrollers
Esp8266, Atmega328,Attiny 8.

Wireshark, Charles

Electronics and signal processing

LANGUAGES

Russian, Belarussian - Native

English - C1

Polish - A2