Nikita Ovramenko

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Summary of Qualifications

- Practical experience in programming with Java, Python, and C/C++, and developed projects using JavaFX, Python (with aiogram), and web technologies.
- Have experience in MongoDB, and Linux, with strong knowledge in digital design and embedded systems.
- Demonstrated leadership by managing multiple team projects.
- Seeking a challenging engineering role to apply technical and interpersonal skills in creative projects.

Education

Toronto Metropolitan University Toronto, ON
Bachelor of Engineering in Computer Engineering; CGPA: 3.03/4.33 *Sep. 2022 – May 2026*

Projects

Home Server and Online Store Bot | *Raspberry Pi, Python, MongoDB* August 2024 – Present

- Configured a **Raspberry Pi** home server with OpenMediaVault, providing secure storage for 2TB of data.
- Developing an online store accessible via Telegram and a web interface using **aiogram**, allowing users to interact with the bot and explore available options.
- Developing a Python-based Telegram bot that allows users to sign up and **saves their information in MongoDB**, making it easier to manage and retain user data.
- Integrating a user interface with functional buttons for streamlined navigation; the "Shop" feature is currently under development, while other buttons are fully operational.

Small Bank App | *Java, JavaFX, NetBeans, SceneBuilder* February 2024 – March 2024

- Developed a bank app for around **100 users**, supporting accurate account and transaction management with zero data errors.
- Implemented account management, transaction processing, and **user authentication** using Java.
- Built a system where each customer's account data is stored in a separate file, ensuring **privacy** and **security**.
- Applied object-oriented principles, including encapsulation, inheritance, and polymorphism, ensuring code **reusability** and **reducing maintenance.**
- Utilized the **State Design Pattern** to develop a dynamic ranking system (Silver, Gold, Platinum), which streamlined the process of handling account-level promotions, making it more **efficient** and **responsive.**

General-Purpose Processor Design | *Verilog, Quartus II, Digital Logic* December 2023

- Collaborated on designing a simple **general-purpose processor**, demonstrating core digital logic principles.
- Developed components such as latches, a finite state machine (FSM), and a 4:16 decoder to manage binary input states and produce accurate outputs.
- Implemented an Arithmetic Logic Unit (**ALU**) capable of performing multiple operations including sum, difference, bitwise XOR, and binary shifts.

Technical Skills

Programming Languages: Java, Python, C/C++, C#, JavaScript, HTML/CSS, MATLAB
Frameworks/Libraries: JavaFX, JUnit, aiogram,React
Developer Tools: NetBeans, Visual Studio, Replit, Geany, SceneBuilder
Databases: MongoDB
Hardware and OS: Raspberry Pi 4, Linux, OpenMediaVault