Nikita Ovramenko

nikita.ovramenko@torontomu.ca LinkedIn Portfolio Github +1 (647) 916-9777

Education

Toronto Metropolitan University Expected: Jun 2026

B.E in Computer Engineering

- **Relevant Courses:** Computer Science, Object Oriented Programming, Data Structures and Algorithms, Operating Systems, Digital Systems/FPGA Programming, Computer Architecture, Advanced Algorithms

Skills

Languages: C, C++, Python, Java, C#, Typescript, JavaScript, SQL, VHDL, Assembly

Tools: Git, Flask, PostgreSQL, MongoDB, React, Express.js, Node.js, JavaFX, Spring Boot, Unix, Docker, Raspberry Pi

Experience

Home Automation Developer **April 2025 - Present**

Pine Smart Solution **Toronto, ON**

- Developed **Python automation** scripts in **Home Assistant**, integrating various smart devices such as **water leak sensors** and **automated blinds**.
- Designed and deployed a custom **Node.js + Express.js** server for Hubitat, enabling **Spotify control** through **RESTful GET/POST** requests.
- Engineered smart home workflows to **automate** responses to sensor triggers, improving system **responsiveness** and **reliability**.
- Initiated and led the migration proposal from **Hubitat** to **Home Assistant**, citing **scalability** and **integration advantages**, while actively exploring and implementing custom Home Assistant solutions.
- Built interactive **dashboards** in Home Assistant, allowing users to control media, **monitor sensors**, and **trigger automations**.

Projects

UniChat

- Developed a **Java** backend for a chat application using Sockets for real-time communication between users.
- Designed and implemented an interactive user-interface using **JavaFX,** iterating with user research.
- Used a variety of design patterns in order to handle different server states dynamically and manage user sessions.
- Implemented event-driven thread to update user activity based on file changes using the **NIO Java library**.
- Used **multithreading** to optimize server performance and ensure server resources were used efficiently.
- Deployed server using **Docker** onto a **Raspberry Pi 4** and successfully created a connection to the server**.**

NikiLab

- Developed portfolio website using **Typescript** to create project modals to display accomplishments.
- Created **React** components and rendered them together, shaping together a unique portfolio.
- Built an interactive section using the **Matter.js** 2-D physics library to display skillset as well as tools learned.
- Styled the portfolio website using the **Tailwind CSS** framework to style and format the user-interface.
- Used **GitHub** for version control, consistently creating commits while implementing best coding practices.
- Deployed web application on **GitHub Pages** for the world to see.
- Tracked user telemetry using the **Google Analytics API**, allowing access to the viewership of the website
- Integrated mailing feature using the **Web3API** to allow users to email messages from the website.

Banking Application

- Architected a robust banking application using the **Model-View-Controller** architectural pattern.
- Displayed object relations using **UML diagrams** and implemented the backend logic in **Java**.
- Created a simple **authentication** system in order to allow different user accounts to be created and accessed.
- Implemented different user tiers making use of **inheritance** to allow for code expandability.