

# Iaroslav (Yaro) Volkov

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## Education

### University of Ottawa

BSc Computer Science, Honors

Graduating 2026, Seeking Summer 2025 Opportunities

3rd Year - GPA: 3.5/4

Relevant Coursework: C++, Databases I, Design & Analysis of Algorithms, Functional Programming Concepts, Networking

## Professional Experience

### CRU Group - BI & Data ENG Consultant (Part-Time)

Toronto, ON, Canada

09/2024 - Present

- Proposed an implementation for **Microsoft 365 Dynamics** to develop a **Data Crosswalk**, reducing **Data Scatter**
- Implemented **SOAP/REST API** integrations to boost **Cross-Functional** team productivity
- Developed & managed **key BI Reporting & Analytics** solutions for **CRU GROUP** claims operations
- Created custom solutions using **Python, SQLite, SQL Server, & Power BI** to enhance **Insurance Adjustment** processes
- Created an **ETL Pipeline** collecting **DATA** to a **MSSQL DB** eliminating manual **Adjustment Calculations**
- Led improvement initiatives to **Streamline** operations, reducing manual work by over **60 hours/week** on a **10-Person** team
- Automated payroll processing with **Python & Cron** jobs, reducing financial overhead & enhancing reporting accuracy
- Implemented **Agile Methodologies & Iterative Cycles** to streamline **Data Integration** processes & shorten **Delivery** times

### General Dynamics - DevSecOps & SWE (Intern)

Ottawa, ON, Canada

08/2023 - 09/2024

- Created elegant **UX/UI Designs** using **SCSS/CSS** & reduced site lag by **80%** using **Asynchronous C#** functions
- Deployed **Collaboard** using **K3S (Kubernetes)** for improved scalability & portability on an **RHEL Linux Server**
- Used **AWS** to develop a **Cloud-Based** deployment to replace **On-Prem** solutions with **CI/CD Pipelines**
- Built **Security Trackers** into **Docker Containers** using **Palo Alto Cloud Compute (Twistlock)** on an **RHEL Linux Server**
- Developed a **WebApp** from scratch using **CSS, C# & SQLite** to map **GD** facilities, displaying **25+** new floorplans
- Spearheaded **GitLab** restructuring across a **100+** person **IT** team, led **Bi-Weekly Sprints** & ensured **GRC Compliance**

### IBM x uOttawa - Cybersecurity Simulation (Intern)

Ottawa, ON, Canada

03/2024 - 09/2024

- Enhanced **Simulation Realism** using innovative **Psychological & Technological** approaches
- Collaborated with **Faculty & SMEs** to design & build content tailored to **Cybersecurity** training
- Developed & maintained **Simulation Environments** for **uOttawa Cyberrange**, supporting **200+** professionals
- Implemented **Psychological & Tech** methods to enhance **Simulation Realism & Immersion** in **Training Scenarios**

## Skills

- Proficient:** Power Automate, Python, C, C++, Java, Docker, HTML, CSS, Git, Unix, TypeScript, ReactJS, Kubernetes, SQL
- Experienced:** Bash, React Native, JavaScript, MongoDB, SQLite, NoSQL, REST, C#, AWS, Spring Boot, NextJS, PowerBI
- Beginner:** Splunk, Android, Assembly, Jenkins, Maven, R, Powershell, GO, Kotlin, AutoDesk, Swift, Firebase, UI/UX
- PM & Leadership:** Agile & Scrum Methodologies, Cross-Functional Team Leadership, Compliance, Risk Mitigation

## Leadership

### uOttHack - Director - Advisor

06/2022 - 05/2024 - present

- Managed a team of **30+** organizers to execute a **Hackathon** with **700+ Students, 30+ Mentors & 25+ Companies**
- Developed the **uOttHack Website, Livesite & uOttApp**, maintained **20+ Repositories (WebApps, API, CI/CD)**
- Managed & maintained a **GitHub** organization housing **40+ Repositories** with **30+ Members**
- Guided sponsorship towards raising over **\$55K** yearly & grew the event's **Instagram** to **2.4K** followers
- Defined & executed **Product Roadmaps** for event applications, integrating **User Feedback** to enhance hacker experiences
- Facilitated collaborations fostering **Team Dynamics & Bonding**, enhancing **Community Engagement & Brand Visibility**
- Advising on crucial outreach initiatives, teaching the fundamental pillars of **Sponsorship & Budgeting**

### VaporWare Games - Co-Founder

01/2024 - present

- Developed a captivating **2D** horror survival game using the **Godot Engine, GDScript, C# & Python** to implement features
- Crafted an **Immersive Atmosphere** & suspenseful storytelling elements within the **Godot Engine's Framework**
- Managed a **Cross-Functional** team of developers & designer, ensuring alignment with development goals & market trends

## Projects

### Mobilitrac - Smartphone-Based Activity Recognition

- Developed a **Python** application to analyze **Smartphone Usage Patterns**, offering insights into user behavior & interactions

### uOttChatBot - uOttHack 7 ChatBot Helper

uOttChatBot

- Built a chat UI & custom-trained **LLM** to answer participants' event questions with **Express & Javascript**

### uOttApp - Hacker Application App

uOttApp

- MEAN Stack WebApp** used by **2500+** hackers to apply for **uOttHack 7**, leveraging **Next.js, Firebase & Vercel**
- Managing **1000+** users at once, tracking & presenting hacker **Stats** on a **User-Friendly UI** enhanced by **SCSS/CSS**

### uOttHack Site - (2023/2024/2025) uOttHack Sites

2023.ca / 2024.ca / 2025.ca

- Using **React, Next, Express & Embeds** to maximize efficiency & optimize **UI/UX** appeal **Release/Update** times
- Maintaining **Event Site** through **Vercel** leading to **100k+** of funding raised & **200+** daily visits