

Iaroslav (Yaro) Volkov

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Education

University of Ottawa

Bachelor of Honors Computer Science

Graduating 2026

GPA: 3.5/4

Professional Experience

CRU Adjusters - BI Data Analytics Consultant

Toronto, ON, Canada

09/2024 - Present

- Created custom solutions using **Python**, **SQL (SQLite and SQL Server)**, & **Power BI** to enhance workflow
- Implemented **SOAP/REST API** integrations to boost **cross-functional** team productivity
- Developed & managed **key BI reporting** & analytics solutions for **CRU GROUP** claims operations
- Conduct analysis to answer **ad-hoc reqs**, design **CRPs** & provide actionable plans to ensure **data-driven** decision-making
- Led improvement initiatives to **streamline** operations, reducing manual work by over **60 hours/week** on a **10-person** team

uOttawa x IBM - Cyberrange Simulation Developer

Ottawa, ON, Canada

03/2024 - 09/2024

- Collaborated with **Faculty** & **SMEs** to design & build content tailored to **Cybersecurity** training
- Developed & maintained **simulation environments** for **uOttawa Cyberrange**, supporting **200+** professionals
- Enhanced **simulation realism** using innovative **psychological & technological** approaches
- Implemented innovative **psychological** & tech methods to enhance **simulation realism & immersion** in **training scenarios**

General Dynamics - Software Engineering Intern

Ottawa, ON, Canada

08/2023 - 09/2024

- Developed **Bash** scripts working with **GitLab API** leading to **90%** time savings for **admins**
- Used **AWS** infrastructure to develop a **cloud-based** deployment to replace **on-prem** solutions
- Upgraded applications to incorporate **webhooks** & produced **scripts** to reduce processing time by **50%**
- Automated deployments & updates using **CI/CD pipelines**, reducing manual operations by **100%**
- Spearheaded **GitLab** restructuring across a **60+** person **IT** team, encompassing administrative tasks & technical migration
- Deployed **Collaboard** using **K3S (lightweight Kubernetes)** for improved scalability & portability.
- Implemented **security** measures within **Docker Containers** to safeguard **DATA** & streamline updates
- Developed a **webapp** from scratch using **CSS**, **C#** & **SQLite** to map GD facilities, displaying **25+** new floorplans
- Created an elegant **UX/UI** & reduced site lag by **80%**, using asynchronous **C#** functions

Projects

VaporWare Games - Lead Developer

VaporWare Site

- 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**

BookIn Website

GitHub - BookIn

- WebApp** that allows users to book hotels in **150+ different regions**, paired with **millions** of booking locations
- Created seamless **UX/UI** design using **Next.js** & **React.js**, using **PostgreSQL** for backend services

Mealer App

GitHub - MealerApp

- Mobile App** that connects cooks & clients to allow clients to experience home-cooked meals from **200+** different regions
- Developed an **Android** application utilizing **Firebase**, **Java** & **NumPy Plugins** to offer personalized food recommendations based on user preferences & previous purchase history

uOttHack Site (2023/2024)

2023.uottahack.ca/2024.uottahack.ca

- Using various **React** libraries and **Embeds** in order to maximize site efficiency & appeal
- Using **Next.js** to implement **Dynamic Data Fetching** for **Backend** development leading to expeditious **release/update** times
- Maintaining & updating advertisement site that led to **50k+** of funding raised & **200+** daily visits

Skills

- Proficient:** Python, C, C++, Java, Docker, HTML, CSS, UML, Firebase, Git, Unix, TypeScript, ReactJS, Kubernetes, SQL
- Experienced:** Bash, React Native, JavaScript, MongoDB, SQLite, NoSQL, REST, C#, Kotlin, NodeJS, NextJS, PowerBI
- Beginner:** Splunk, Android, Assembly, Jenkins, Maven, Gradle, R, Powershell, GO, AWS, AutoDesk, Swift

Leadership

uOttHack - Director

Ottawa, ON, Canada

06/2022 - 05/2024

- Managed a team of **30** organizers to execute a **Hackathon** with **700+ students**, **30 mentors** & **25 companies**
- Developing the **uOttHack website**, **livesite**, & **uOttApp**, while maintaining over **20 repositories** (webapps, API, CI/CD)
- Managed & maintained a **Github** organization housing over **40** repositories, with **30+** members
- Guided sponsorship, raising over **\$50K** yearly & grew the event's **Instagram** to **2.3K** followers
- Primary focus on **team management** & working effectively as a unit to accomplish **Ottawa's largest Hackathon**

uOttHack - Advisor

Ottawa, ON, Canada

06/2024 - present

- Leading the next generation of **Hackathon** organizers by running **workshops**, **syncs** & **leadership seminars**
- Facilitating collaborative sessions to foster **team development** & **strategic alignment**
- Advised on crucial **sponsorship** initiatives, teaching the fundamental pillars of **sponsorship** & **budgeting**
- Enhancing **community engagement** & **brand visibility**