Iaroslav (Yaro) Volkov

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Education

University of Ottawa   *Graduating 2026*
Bachelor of Honors Computer Science   **GPA: 3.5/4**

Professional Experience

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
- Managed application **maintenance**, **tickets**, **upgrades** & **security** risk documentation
- 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
- Managed the planning, coordination, & execution of the transition process, ensuring adherence to project timelines
- Deployed **Collaboard** using **K3S (lightweight Kubernetes)** for improved scalability & portability.
- Implemented **security** measures within **Docker Containers** to safeguard **DATA** & streamline updates

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**

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

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

uOttaHack 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
- **Experienced:** Bash, React Native, JavaScript, MongoDB, SQLite, SQL, NoSQL, REST, JSON, C#
- **Beginner:** Splunk, Android, Assembly, Jenkins, Maven, Gradle, Node.js, Next.js, R, Powershell

Leadership

uOttaHack - 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 **uOttaHack website**, **livesite**, &**uOttaApp**, while maintaining over **20 repositories** (**webapps**, **API**, **CI/CD**)
- 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 **Ottawas largest Hackathon**

Languages

Native/Advanced: English, Ukrainian, Russian ; **Intermediate:** French, German