Joshua Wakelin

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EDUCATION

Mohawk College of Applied Arts and Technology   Hamilton, ON
Network Engineering and Cybersecurity Analysis, Advanced Diploma   *Sep. 2023 – Jun. 2026*
- Relevant Coursework: Introduction to Programming, Introduction to Networking, Cisco Routing and Switching, Cloud Computing, TCP/IP Protocols, Microsoft Server Admin, Unix Fundamentals, Discrete Mathematics

WORK EXPERIENCE

Freelance Software Developer   June 2020 – Present
Self-Employed   *London, ON*
- Achieved **20+** high-profile clients with Javascript and Lua game development, contributing to over **125M+** gameplay sessions and over **200K+** Discord server members.

LEADERSHIP EXPERIENCE

Lead Programmer
Glace   *London, ON*
- Led programming and technical operations for popular Roblox game Glace, using languages and frameworks such as Lua, Node.js, Python and PostgreSQL, contributing to a community with over **16.2M+** play sessions and **200K+** MAU during peak season.
- Directed the development of **automated staff management** and **data privacy compliance tools** to comply with different country **data privacy laws,** such as **Right to Erasure** requests.
- Incorporated fun gameplay mechanics, such as NPC systems to enhance gameplay experience, achieving a **65% annual player base growth** and **56% average yearly revenue growth**.

PROJECTS

Chainguarder | *Python, Scikit-learn, AWS, Machine Learning*   Testing API
- Used **Python** and **Scikit-learn** to create a **ML** model which predicts the likelihood a **cryptocurrency** transaction is fraudulent using **decision trees** and **logistic regression**.
- Developed a **RESTful Test API** hosted on AWS using **Nginx** and **Flask**, simplifying **API usage**.
- Collected **12+** unique data points on each cryptocurrency transaction using tools such as **EtherScan** to fine-tune machine learning models.

MyMifare | *Python, Pyscard, NFC*   Source Code
- Developed a Python-based **byte-manipulation** tool to decrypt, read, write, save and compare **NFC card data**.
- Designed and tested functionality for **data persistence** by exporting NFC data to custom file formats for analysis and reuse.

joshwakelin.dev | *Javascript, React, PostgreSQL*   Live Demo | Source Code
- Built a dynamic web application using **React** and utilized **React state management**, improving application responsiveness and reducing render time by **20%**.
- Dynamically fetched website data using tools such as **PostgreSQL**, ensuring real-time data synchronization.

Nestfire | *Typescript, Javascript, Firebase, NestJS*   Source Code
- Developed a **high-performance library** for **integrating Firebase with NestJS applications**, featuring easily accessible **HTTP endpoints** to optimize real-time database operations.
- Implemented **modular architecture** to streamline feature additions and ensure seamless code management.

TECHNICAL SKILLS

Languages: Lua, Python, Javascript, HTML/CSS, SQL, Java, C/C++, PHP, R, Bash
Frameworks: Node.js, React, Nginx, Angular, Django, NestJS, Express
Developer Tools: VSCode, Xcode, Firebase, AWS, Docker, Postman, Jira, Powershell, Git, Azure, Wireshark
Libraries: Pandas, NumPy, pytest, pyscard, Scikit-learn, Tailwind, Mongoose, Requests, BeautifulSoup, Selenium
Interests: Cybersecurity, Cryptocurrency, AI, Machine Learning, Fintech, SaaS