Lucas Vandermaarel, Systems Engineer

2521 Catherine Street, Dorchester, Canada, 2269808454, lukevdm64@gmail.com

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LINKS

LinkedIn

PROFILE

Dynamic Critical Systems Engineer with over 5 years of experience in system analysis, integrations, automations, cybersecurity, and web development, delivering functional and maintainable automation solutions that enhance operational efficiency.

Expertise in cloud configuration, automation scripting, and system administration drives the successful integration and deployment of cutting-edge technologies to support educational environments.

Proficient in developing custom applications and automations, ensuring seamless collaboration across platforms to meet diverse needs.

A commitment to continuous improvement fosters environments where technology empowers users to excel in their tasks and achieve organizational goals.

Ready to leverage a robust skill set to contribute to a forward-thinking team in a high-growth SaaS environment.

EMPLOYMENT HISTORY

Jun 2021 — Present

Critical Systems Analyst, Avon Maitland District School Board   Clinton, Ontario

- Built a custom AI chatbot to retrieve organizational information and run agentic flows (Next.Js, Postgres, Typescript, Ollama, Nginx, integrations with TOPdesk, Azure SSO)
- Oversaw the creation, maintenance, and support of 19 services for 3000+ staff, 100+ administrators, and 15000+ students
- Created, manipulated, and used Active Directory GPOs in automation packages to delineate roles and access in vendor services
- Utilized Microsoft's Graph API for automation and integrations
- Migrated static web pages into a dynamically generated solution to improve efficiency and scalability
- Developed custom solutions to ensure vendor-provided services worked as the board intended
- Created integrations between Student Information System and several services critical to student safety and student success
- Created and maintained SSIS data flow packages and PowerAutomate flows utilizing Javascript, C#, and PowerShell.
- Collaborated to solve complex problems under strict deadlines
- Created and modified Azure enterprise applications to incorporate Azure AD SSO including an AI chatbot and many other vendor-provided services.
- Configured Splunk add-ons including Azure Event Hub
- Routinely configured VM servers to improve cybersecurity posture
- Involved in the configuration of SentinelOne SIEM
- Involved with the migration from Maplewood SIS to Aspen SIS
- Modified Aspen exports and imports using JasperSoft, Java, and XML

May 2019 — Jul 2020

Frontend Web Developer, VDM Management Systems INC   London, Ontario

- Coded in JAVA, JavaScript with JQuery, HTML, CSS, SQL, and XML with the SAPUI5 framework
- Multitasked coding in multiple programming languages at the same time to create new options and recreate old functionalities using a new framework
- Organized and implemented multiple functional 'options' allowing for the continuation of the project in a timely manner

EDUCATION

<table>
<tr><td>Sep 2019 — Apr 2021</td><td>OCD, Fanshawe College</td><td>London, Ontario</td></tr>
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- Knowledge of CSS, PHP, HTML, LAMP servers, WAMP servers, SQL, JavaScript, Mobile Web Development
- Experienced the usage of agile development processes such as scrum
- Able to create custom websites, WordPress websites, eCommerce
- Familiarity using Twitter Bootstrap framework and some usage of Node.JS, React, Laravel
- Learned React components and concepts during the completion of a project
- Comfortable with Linux distribution Ubuntu to create web servers with Apache

Self-Taught Homelab

Configured and maintained a home lab running:

- Proxmox
- Kubernetes (with Rancher and Longhorn)
- Headscale VPN
- PiHole (local DNS and network traffic filter)
- traefik for ingress,

i plan to transfer these processes into enterprise grade equipment for my own enjoyment and further exploration.

SKILLS

Cloud Configuration	Web Development
Automation Scripting	Cyber Security
System Administration	