

Victor Timpau

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Professional Summary

Software engineer with **5+ years of professional experience** building software, automation, and internal tools, with a track record of independent delivery and collaboration across technical teams.

Technical Skills

Languages and frameworks: Python, Bash, C++, C#, TypeScript, Pytest, Phaser

Software tooling: Linux, Jenkins, Git (self-hosted), Woodpecker CI, Docker, Grafana, System Pulse

Professional Experience

Systems Administrator | Hamilton Health Sciences

Full time | Oct 2025 - Present

- Resolve **escalated technical issues for Epic systems** and monitor system health with System Pulse.
- Designed and built a **Grafana dashboard for management**, consolidating Windows, Kuiper, and System Pulse data into a single view during update periods.
- Provisioned the Linux VM, integrated data sources, and implemented the dashboard through the SDK.

Software Development Engineer 2 | AMD

Markham, Ontario | Jul 2019 - Jan 2025

- **Pioneered automated OS validation at AMD**, independently building Python/Pytest infrastructure that increased automation coverage from **0% to 70%** and supported **hundreds of tests across 65+ machines**.
- Integrated the suite into **Jenkins** to automate test execution and used Grafana to monitor testing activity across validation environments.
- Engineered **automated gameplay workloads and benchmarks**, coordinating complex actions and replaying recorded scenarios to validate GPU and driver behavior against **performance, image-correctness, stability, and GPU-statistics criteria**.
- Built dashboard reporting and automated **HTML reports for release stakeholders** to assess test results and release quality.
- Orchestrated Linux release testing around distribution release schedules and prerelease access; maintained bare-metal environments and investigated hardware, OS, and driver failures.
- Worked across teams and time zones to resolve driver issues; reviewed code, maintained test plans and documentation, and mentored teammates.

Professional Experience Year (PEY) | AMD

Markham, Ontario | May 2017 - Aug 2018

- Managed an automation server supporting builds, deployment, and testing.
- Built an **OpenCV benchmarking and correctness tool** for GPU/NVMe hardware, capturing images at regular intervals and exporting CSV results to replace handwritten benchmark records.

Projects

AI development tooling

- Built a **pi-based development harness** as a more responsive alternative to other AI tools, with custom plugins and reusable skills for planning, implementation, testing, debugging, and review.

Home-lab development platform

- Built a **self-hosted development platform** with multiple Linux containers to standardize toolchains and preserve project files and SSH identity across container replacements.
- Engineered **Woodpecker CI pipelines** to publish reusable, versioned environments only after functional tests and Trivy security checks, with checksums for verified installation.
- Isolated CI builds in a **dedicated Docker environment** so pipelines could build and test images without access to the NAS production Docker daemon.

Education

Bachelor of Applied Science, Computer Science (Co-op)

McMaster University | 2019