

Adithya Thayyil

+1 (365) 292-3932 • adithayyil@icloud.com • adithayyil.tech • linkedin.com/in/adithayyil • github.com/adithayyil

Education

University of Waterloo *Bachelor of Mathematics*

Sep 2023 – Present

Technical Skills

Languages: Python, C/C++, Go, Rust, JavaScript/TypeScript, GraphQL, Java, SQL
Frameworks: React, Tailwind CSS, Hugo, Express, Flask, MongoDB
Infrastructure: Unix/Linux, Docker, Kubernetes, AWS, Azure, DigitalOcean, Cloudflare, CI/CD, Ansible
Tools: Git, Node.js, RESTful APIs, Helm, Terraform, Prometheus, Grafana
Creative Tools: After Effects, Photoshop, Illustrator, TouchDesigner, Blender

Experience

GENIE AI *Intern*

Toronto, ON • Apr 2024 – Aug 2024

- Architected and shipped Go/TypeScript features for production and marketing, supporting **\$1M+ seed fundraising**.
- Designed and implemented CI/CD pipelines using Docker, Kubernetes, AWS, and DigitalOcean, **doubling release cycle speed**.
- Automated cloud infrastructure provisioning with Terraform and Ansible, **reducing deployment times by 50%**.
- Enhanced API efficiency, **cutting P95 latency by 30%** and integrating end-to-end observability with Prometheus and Grafana.
- Produced launch videos, **driving a 25% increase in user engagement** and expanding reach by 40%.

Hamilton Fringe Festival *Artist Liaison & Production Assistant*

Hamilton, ON • Jul 2022 – Aug 2022

- Coordinated logistics for **100+ artists** across **12 venues and 350+ shows**, ensuring seamless event execution.
- Optimized scheduling processes, **reducing show changeover delays by 30%** and improving attendee experience.

Unlock *Co-Founder & VP Technology*

Toronto, ON • Nov 2021 – Apr 2022

- Launched and scaled a profitable student-mentor startup, **generating \$1K+ in pilot revenue** within 6 months.
- Engineered CI/CD stack with Docker, Nginx, and Linux, enabling rapid, reliable deployments.
- Developed and integrated a Shopify referral plugin, **boosting client sales by 30%** through automated workflows.

Projects

bsdl *Go*

- Engineered CLI downloader for BeatStars, **achieving 3x speedup** via advanced metadata parsing.
- Processed **500+ tracks** using asynchronous fetch and robust error handling for high reliability.

Docktor *Debian, Docker, Cloudflare Tunnels*

- Automated Docker app deployment with live TLS and push-based updates, streamlining DevOps workflows.
- Reduced manual server maintenance by 70%**, achieving **99.9% uptime** for hosted applications.

uwtennis *Rust*

- Engineered a notifier for University of Waterloo tennis court openings, delivering **real-time alerts**.
- Enabled automated monitoring across **3 skill levels**, reducing missed court opportunities by **90%+**.

PlantPro *React, Node.js, Express, Tailwind CSS, MongoDB*

- Developed a full-stack web app for plant care, delivering reminders, tips, and growth analytics.
- Onboarded **200+ users**, **reducing missed watering incidents by 40%** through intelligent notifications.

SoundCloud Notify *Python, SQL*

- Built Discord bot for real-time music drop alerts using web scraping and efficient database management.
- Served **2,000+ users** with **sub-2s latency** across 10+ servers, ensuring high user satisfaction.

NAS + VPN Server *TrueNAS, OpenVPN*

- Deployed secure NAS and VPN server for self-hosted file access, enhancing data privacy.
- Automated admin tasks via CLI, **tripling operational efficiency** for remote access.

weather *Arduino, ESP8266*

- Designed IoT sensor grid for environmental data collection via wireless communication protocols.
- Logged **10,000+ readings/month**, visualizing real-time insights on custom dashboards.