



Timothy Lock

 me@timothylock.ca
 timothylock.ca

Education **University of Toronto** (09/2014 – 04/2019)
Bachelor of Computer Science

Technical Skills **Programming Languages:** Golang (Go), PHP, Java, Python, SQL, HTML, JavaScript
Cloud: Docker, Kubernetes, AWS (Amazon Web Services), Terraform, RDS, SQS/SNS
Version Control: Git, Subversion
Operating Systems: Windows, Unix, Linux, macOS
Storage: SQL, DynamoDB, Redis, Amazon Aurora, Postgresql

Work Experience **Software Engineer** **Splashthat (One Clipboard Canada Inc.)**
Toronto, Ontario (09/2021 – Present)

- Design and integrate external OAuth providers for secure user authentication
- Deploy and optimize Kong API gateway to enhance security, scalability, and performance across external facing infrastructure
- Develop a Golang microservice template, driving the company's migration to a scalable microservice architecture
- Implement custom rate-limiting mechanisms for optimal platform performance and prevention of abuse
- Collaborate on integrations with Salesforce AppExchange, Marketo, and other platforms for streamlined workflows and efficient data exchange



Platform Engineer **Wattpad Corp.**
Toronto, Ontario (06/2019 – 09/2021)

- Developed and deployed multiple backend microservices, effectively handling a high volume of over 80k client requests per second via public APIs
- Modernized and migrated legacy monolithic systems (e.g., PHP) and datastores to advanced technologies such as Golang, Redis, MySQL, and AWS Aurora
- Created and owned an image moderation system, proactively identifying and removing banned content from over 3 million monthly images
- Led the integration of Sign In With Apple into the Wattpad ecosystem, ensuring a seamless user experience, while concurrently upgrading and maintaining other Single Sign-On (SSO) solutions like Facebook Sign In for a user base of over 90 million monthly active users

Associate Platform Engineer **Wattpad Corp.**
Toronto, Ontario (05/2017 – 09/2018)

- Maintain and migrate legacy-systems like PHP and datastores to newer technologies like Golang, Redis, MySQL, AWS Aurora, etc.
- Pioneered the development and implementation of Wattpad Premium/Wattpad Paid Stories, driving significant revenue growth by efficiently processing a high volume of daily purchases
- Leveraged technical expertise to configure internal ad exchange systems, optimizing revenue generation from ad partners and maximizing profitability for the company

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IT Help Desk Analyst

Toronto, Ontario

University of Toronto

(09/2018 – 05/2019)

- Delivered technical support to over 1150 students, effectively resolving their IT issues and ensuring seamless operation within the university network
- Proactively developed solutions to integrate new users into a 15-year-old infrastructure, overcoming compatibility challenges and enhancing connectivity for improved user experience
- Upgrade networking equipment in student rooms, significantly enhancing reliability and performance, thereby optimizing the overall network infrastructure

Computer Instructor

Markham, Ontario

LogicFusion Ltd.

(07/2015 – 11/2018)

- Designed and delivered comprehensive and accessible curriculum-based classes in programming languages such as Java, Python, and C++, as well as hardware, robotics, and game design
- Collaborated closely with fellow instructors to identify areas for improvement in the courses, actively contributing to the development of enhanced teaching methodologies and strategies

Other Experience

Aerial Robotics Division Lead

Toronto, Ontario

University of Toronto Aerospace Team

(2015 - 2018)

- Develop the computer vision software program for the autonomous quadcopter written in Python, using image processing libraries such as OpenCV
- Train an ML to detect appropriate targets based on requirements
- Ensure the quadcopter operations are within allowable and legal limits