

Matthew Frost

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Cambridge, Massachusetts 02142

VMware, Cambridge, Massachusetts (2014 - Present)

Member of Technical Staff 1 (2014 - 2015)

Member of Technical Staff 2 (2015 - 2017)

Member of Technical Staff 3 (2017 - Present)

- Software engineer on the development team for vCloud Director, VMware's multi-tenant cloud management solution. vCD provides monitoring and controlling of cloud computing components such as VM provisioning/orchestration, security, billing, and self-service access.
- Added support for automated/unattended install and configuration of vCD. [Java]
- Refactored implementation of vCD cell applications to increase extensibility. [Java]
- Expanded available functionality and increased safety of zero downtime upgrades by adding runtime checks comparing which tables will be altered and how they are used. Also added compile-time checks to ensure new upgrades do not reduce functionality. [Java, Hibernate]
- Modified vCD to run on a single IP and allow configuration of ports so it can easily be ran in a container. [Java, Docker]
- Simplified upgrading vCD by enabling upgrade of a single cell in a server group to upgrade all other cells automatically. [Java, Bash]
- Refactored cell heartbeat code to improve configurability and then introduced site heartbeats concurrent with new multi-site functionality. [Java]
- Improved the domain specific language for vCD's upgrade framework to support additional data types and additional SQL operations. [Java, Groovy, SQL Server, Oracle, PostgreSQL]

StopBadware, Cambridge, Massachusetts (2012 - 2014)

Software Engineer

- Designed, built, and maintained the applications and databases used by StopBadware.
- Created StopBadware's Data Sharing Program to facilitate sharing of malware-related data among information-security researchers, companies, and organizations. [Java, MongoDB]
- Created an internal application for use in StopBadware's independent review process to provide higher quality data related to each site under review. [Scala, PostgreSQL]
- Rewrote Google's blacklist importer significantly reducing import time over the previous implementation. This allowed Google to send their blacklist more frequently, thereby increasing the timeliness and accuracy of StopBadware's clearinghouse. [Java, MySQL]
- Built an IP/AS resolver allowing StopBadware to publicly report the IPs and Autonomous Systems hosting the most sites blacklisted by StopBadware's data providers. [Java, MySQL]

Boston Technologies, Boston, Massachusetts (2010 - 2012)

Team Manager, Trading Systems Analytics

Starwood Hotels and Resorts, Boston, Massachusetts (2010)

Banquet Supervisor, Westin Boston Waterfront

Hyatt Hotels, Greenwich, Connecticut & Boston, Massachusetts (2004 - 2009)

Assistant Banquet Manager, Hyatt Regency Boston (2007 - 2009)

Assistant Food & Beverage Manager, Hyatt Regency Boston (2005 - 2006)

Food & Beverage Supervisor, Hyatt Regency Greenwich (2004 - 2005)

Non-work-related development projects

- shouldifollow.com - displays metrics such as frequency/timing of tweets and average tweets per day for Twitter users. [*Ruby*]
- [DontCast](#) - World of Warcraft addon with over 40,000 downloads. [*Lua*]
- PvPLleaderboard.com - allows viewing and filtering of PvP leaderboards and the talent choices of top World of Warcraft players [*Ruby, Scala, PostgreSQL*]
- WGU Capstone Project - analyzed Twitter activity to predict stock market movement based on positive or negative sentiment for stocks. [*Java, MySQL*]

Education

Western Governors University

Graduated May 2012

Bachelor of Science, Information Technology - Software

Volunteer Experience

Operation Code (2017 - Present)

Volunteer mentor helping military veterans and families learn to code and transition into careers in software development.

Technical Proficiencies

Java, Scala, Ruby, C++, JavaScript, Groovy, Lua, Clojure, PHP, Go, MySQL, PostgreSQL, MongoDB, Redis, Spring, Hibernate, Rails, Play, Docker, React