

# Marcus Watkins - Software Engineer

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## About Me

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My first significant software project was a Risk clone for the TI-85 graphing calculator written in high school. I've been writing code ever since, as both hobbyist and professional. I'm a polyglot who picks up new tech quickly and can hit the ground running. I'm capable of designing and implementing complex software from architecture and cloud deployment down to low-level OS configuration. I'm an excellent problem solver, often the go-to for problems others can't solve.

## Primary Work Experience

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2017 – Current	Software Engineer IV	<a href="#">Peraton</a>
2015 - 2017	IT Director (Volunteer)	<a href="#">Bal Swan Children's Center</a>
2008 - 2011	Founder	<a href="#">Versatile Monkey</a>
2005 - 2017	Co-Founder/CTO	<a href="#">Toppers With Glitz</a>
2000 - 2012	Software Engineer	<a href="#">IBM</a>

## Major Projects

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### Government bare-metal to on-premise cloud conversion (2017 to 2023)

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Led transition from manual bare metal builds and deployments to automated, declarative, repeatable containerized deployments for a variety of disparate internet-facing components using 100% infrastructure as code and a cloud-agnostic approach. Significantly reduced developer toil and operator error, ensuring higher uptime and fewer outages.

*Stack:* Docker, Openshift, Kubernetes, Ansible, GitLab CI, Go, Java, Python, Bash, Argo, AWS

### Bal Swan G-Suite Migration (2016)

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Solely responsible for seamless transition from legacy mail and office systems to G-Suite for approximately 50 technologically challenged users.

### IBM OneView (2004 to 2012) - Major Outage Management System

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Led global team of developers and support personnel to design, implement and support IBM's strategic solution for outage management. System provided executives, customers and operations staff critical information needed to drive outages to resolution.

*Stack:* Perl, DB2, AIX, HTML, Javascript, CSS

### ToppersWithGlitz.com (2005 to 2017) - Website and workflow management

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Designed and implemented complete eCommerce solution for small business including graphic design, secure order management, advertising and website analytics.

*Stack:* Perl, HTML, Javascript, CSS, Linux, MySQL, Microsoft Access

## IBM OneContact (2006 to 2012) - Support Notification Tool

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Led global team of developers to design and implement IBM's strategic notification system. This system was used to expand support globally reducing costs and outage times.

*Stack:* Java, Perl, DB2, HTML, Javascript, CSS

## PodTrapper (2008 to 2011) - Mobile Podcast App for Android and Blackberry

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Designed award winning podcast application for BlackBerry, then implemented a custom BlackBerry to Android API to allow a common code base for both platforms.

*Stack:* Java, REST, HTTP, Android, BlackBerry

## IBM Call Recorder (2002 to 2004) - Helpdesk Quality Assurance Tool

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Developed automated call recorder to facilitate helpdesk quality assurance reducing hours spent waiting for agents to take calls.

*Stack:* C++, MAPI, Windows, Avaya IP Telephony

## Education and Qualifications

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1998 - 2001	Computer Science	University of Colorado	Boulder, CO
2004 - 2006	BS, Computer Science	Metropolitan State University	Denver, CO
2003	Red Hat Certified Engineer		

I have open source contributions to [Ansible](#), [minikube](#), [buildah](#), [go-git](#), [CAS](#), [zerolog](#), and more in addition to many of [my own projects](#).

## Idiomatic Languages and Technologies

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- **Go**
- **Java:** Spring[boot], Maven, Eclipse, JUnit 4/5, JSP, OSGi, Selenium
- **Perl**
- **Bash/Shell**
- **SQL:** PostgreSQL, MySQL, Microsoft Access, SQLite, IBM DB2
- **HTML/CSS:** CSS3, Bootstrap
- **Cloud:** Docker/Podman, Kubernetes/OpenShift, AWS, ELK stack
- **CI/CD:** GitLab CI, Argo
- **Javascript**
- **Ansible**
- **Linux:** RHEL, CentOS, RockyOS, Ubuntu, WSL2

## Passable Languages and Technologies

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Python, C++, C#, Angular, Azure, GCE and I can write *Java* in almost anything

## Awards

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- IBM Technical Vitality Council Technical Excellence Award (3 time winner)
- IBM Outstanding Technical Achievement (Highest cash award available at IBM)
- IBM Corporate Technical Recognition Event Alumni
- IBM Invention Achievement Award (Awarded US Patent)