Jason McGillivray

Objective

Results-driven with 20 years of development experience looking to continue my career as a software engineer / DevOps.

Skills

Computer Languages	Perl, Python, PHP, Ruby, Java, C, C++, sh, Powershell, JS, SQL
Protocols & Web APIs	RESTful Web-Services, SOAP, Ember, Node, React, GRPC
Databases	PostgreSQL, DB2, SQLite, Sybase, MySql, Microsoft SQL
Operating Systems	Linux, Solaris, FreeBSD, OpenBSD, Windows, OS X
DevOps	Jenkins, Docker, Terraform, AWS, Ansible, Datadog, Git, Splunk
Machine Learning	Tensorflow, spaCy, Deepspeech, Tesseract
Languages	Bilingual English & French

Work Experience

Period	**2019 — Present**
Employer	**AnalyzeRE** Halifax, NS
Job Title	**Senior Software Dev, DevOps**
Languages	**Python, C++, Terraform/HCL, Bash, Groovy, Wiki**
Tech	**Linux, Docker, AWS, Django, Terraform**

At AnalyzeRE I focus more on DevOps projects due to a skills gap in the team, meanwhile I'm democratising the DevOps process to ramp up the rest of the team and build their confidence in our builds and releases.

- **Build** Docker-ized the build process, allowing cattle vs pet build boxes

- **Build** Consolidated the build process to allow the local development and Jenkins to use the same workflows

- **Automation** Ported their 150 manually configured build jobs to Jenkinsfiles accross all repositories

- **Migration** Migrated legacy SaltStack manual provisioning and orchestration to automated Terraform

- **Infra** Overhauled the old lift and shift infrastructure design to a cloud native solution, using Terraform and Packer.

- **Planning** Designed infrastructure for a new product iteration to be cloud native infrastructure and serverless .

- **Infra** Moved from manually provisioned compute resources to autoscaling spot fleets for build systems, reducing cost by 90%

- **QA** Built out benchmarking framework to allow spotting trends in performance over master builds.

- **DB** Created enterprise database backup / restores over our AWS accounts using KMS / CMK's.

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Period	**2017 — 2019**	
Employer	**AIOTV**	Halifax, NS
Job Title	**Senior Software Dev, Scrum Master / Team Lead**	
Languages	**Python, Groovy, JS, React, Redux, RxJS, Wiki**	
Tech	**Linux, Docker, AWS, Django, Elasticsearch, React, NX, Terraform**	
QA	**pytest, selenium, splinter, Gherkin**	

At AIOTV I encountered many interesting opportunities to wear many hats. And had my first exposure to using machine learning to solve actual "problems".

- **Lead** code review, pair programming, mentoring, documentation for our tech stack and APIs.

- **Scrum** worked with the CEO, VP and UX to plan and implement the next steps for our products.

- **Dev** Built out a back-end API for our React / Redux / RxJS front-end to consume our metadata services.

- **Dev** Wrote a machine learning ad placement recommendation engine.

- **Dev** Built out elasticsearch indexing and dockerized deployment.

- **DevOps** Optimization of our infrastructure and code-base to process large volume video processing.

- **DevOps** Implemented a CI process using Jenkins, Github, AWS ECR and Docker due to our DevOps leaving.

- **QA** Spear headed the transition from manual to automated QA Testing with Unit, Integration and Automated Acceptance tests.

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PERIOD	**2004 — 2016**
EMPLOYER	**Morgan Stanley Mobile/Remote Computing** Halifax, NS
JOB TITLE	**Mobile Development Principal Consultant**
LANGUAGES	**Perl, Python, Java, jQuery, MySQL, PostgreSQL, Sybase**
TECH	**Linux, Windows, Blackberry Enterprise Server, MobileIron, Mobile-Guard, LDAP, ActiveDirectory, MQ**

Working for the Remote/Mobile teams allowed me to write many interesting apps and processes below are a few:

- **SMS Archiving**: processe for the Firms SMS archiving to comply with Legal and Compliance standards archiving millions of messages per month into our Zantaz vault.

- **MobileIron Drift**: web app highlighting the configuration differences between all the MobileIron system and application level configurations globally.

- **Helpdesk User Look-up**: web app for our help-desk to allows querying of the MI infra for user devices, phone numbers, application entitlements, enrollment and geographical regions over the span of our global deployments.

- **MobileRFB**: Ready for Business process automation. Web dashboard to replace a manual process and to track daily statistics.

- **IMAD**: Immediate disablement for emergency terminations. Process to disables a users mobile device, LDAP accounts, windows / Linux accounts, exchange mailboxes, etc.

- **UMP**: Reads the firms HR published CPS stream for hiring/termination, lost or stolen device requests, and ushers them off to specialized MQ's / endpoints.

- **FlexBook**: Ruby on Rails app to allow desk reservation / hoteling for remote users returning to the office.

- **BES RDS**: Reporting framework for our BES Servers to gain insights into our users behaviors and usage statistics.

PERIOD	**2003 — 2004**
EMPLOYER	**Synchronicity Inc** Halifax, NS
JOB TITLE	**Lead Operating Systems Developer and Administrator**
LANGUAGES	**Perl, PHP, Python, C, PostgreSQL**
TECH	**Linux, Kernel Modules, VPN, Point to point Tunneling Protocol, NAS, Exim, SNORT**

Working with the CEO, I created a Linux Live-CD distribution with built in PPTP VPN server infrastructure. Implemented our servers IDS systems using custom written SNORT rules, along with spam-assassin filtering for our Email servers and Clam-av scanning of attachments. Designed an automated installation procedure for spinning up new server hardware and integrating it into our environment. Setup automated penetration testing on our network and application levels to help mitigate the risk of breaches to our company servers. Wrote all of our internal web administration framework that allowed us to configure our server farm and user databases.

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PERIOD	**2002 — 2003**	
EMPLOYER	**SG5 Innovation**	Moncton, NB
JOB TITLE	**Lead Developer**	
LANGUAGES	**Perl, PHP, Python, C, C++, WxWindows, PostgreSQL, Flash**	
TECH	**Linux, FreeBSD, IPFW, IPTables, Firewalls, MacOS, CodeWarrior**	

Designed and implemented a secure B2B E-Commerce contract bidding website from concept to maturity. Setup and administered all of the company's servers (web, firewalls, databases, load balancers, source control, DEV, QA and Prod envs). Managed a team of 6 junior programmers and mentored them with the concepts introduced by the challenges of building out our application and infrastructure.

PERIOD	**2000 — 2002**	
EMPLOYER	**Open-Source Directory**	Moncton, NB
JOB TITLE	**Lead Developer / Co-Founder**	
LANGUAGES	**Perl, PHP, Python, C, MySQL, Mailman, Postfix, XML, PostgreSQL**	
TECH	**Linux, FreeBSD, IPFW, IPTables, Firewalls**	

Designed and implemented an online bazaar/showcase for open-source software, easily searchable by end users. Setup and configured all our web-servers, load balancers, firewall and development machines with open-source software. Created all of our backup utilities, and support tools. Developed an XML-exportable database for data exchange between organizations. Helped in the design process of the Open-Source Logo that's still in use today to represent open-source applications around the world.

EDUCATION

PERIOD	**1999-2000**	
INSTITUTION	**Mount Allison, University**	Sackville, NB
PERIOD	**2000-2002**	
INSTITUTION	**Dal, University**	Halifax, NS

REFERENCES

Reference	David Weinberg
Position	Senior Software Dev - Morgan Stanley
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