

## EXPERIENCE

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### Technical Lead, DevOps IBM January 2021 - Present

- Technical lead 4-person DevOps initiative for designing, building and optimizing scalable systems
- Automated production infrastructure provisioning of a minerals blockchain with Terraform and Ansible

### Lead Engineer IBM February 2019 - December 2020

- Led 6-person team to build a vehicle supply chain blockchain and led initial launch and implementation
- Architected (cloud) infrastructure and delivery automation using Kubernetes, Terraform, Concourse
- Reduced blockchain query response time by 80% by writing a database replicator with checkpointing
- Improved scalability by writing a dedicated query service, segregating reads from writes
- Reduced RTO by half a day by designing and implementing automated backup and restore
- Reduced cloud costs by 10% through improved container resource allocations and blackbox monitoring
- Increased deployment frequency fourfold by automating onboarding, load tests and versioning
- Increased cross-project productivity by writing infrastructure blueprints and 12-factor service boilerplates

### Software Engineer IBM November 2017 - February 2019

- Lead a cloud migration to AWS, revamping 4 on-premise VM-based workloads for Kubernetes
- Improved testability and code evolvability by proposing and driving the implementation of a reactive MVVM based iOS architecture
- Reduced query response time by 40% while decreasing database load by writing a Redis caching layer
- Improved operability by writing a StatsD (white-box) service agnostic telemetry layer
- Reduced production container memory footprint by 75% by utilizing Docker multi-stage builds
- Reduced overall iOS lead time by automating code signing and app store deployments through Fastlane

### Founder/Developer Musso October 2016 - December 2017

- Designed, developed and released an iOS fitness tracking app
- <https://appadvice.com/app/musso-gym-log-body-recovery-and-workout-builder/1216168371>

### Developer Intern CWI February 2016 - February 2017

- Developed an iOS video sharing app in Objective-C, demonstrating client-side benefits of software defined networking in low bandwidth connection areas
- Increased network disruption tolerance by 50% by segmenting video uploads into smaller data chunks

### Project Lead / Intern JogoJogo/BananaApps June 2014 - January 2016

- Built hybrid mobile kids apps with Appcelerator Titanium, HTML, Javascript and CSS
- Promoted to Project Lead after 4 months, supervised 8 (remote and on-site) engineers and designers

## AWARDS

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- IBM Outstanding Technical Achievement Award (2019): awarded annually for most innovative individual technical contributions
- IBM Client Excellence Award (2018): awarded quarterly to top performers based on client reviews
- Selected for IBM's 12-month top talent program (2019) based on leadership potential and performance

## CERTIFICATIONS

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- RedHat Certified Systems Admin (RHCSA)
- Certified Kubernetes Administrator (CKA)
- Professional Scrum Master (PSM1)

## PUBLICATIONS

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- Co-author: "Mobile Instant Video Sharing" *ACM Multimedia Conference Mountain View*
- Blog <https://fabijanbajo.com/blog>

## PROJECTS

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- Webshop (individual, 2020): polyglot micro-service e-commerce project with a reactive iOS front-end and Kubernetes based infrastructure. Typescript, Java, Python, Go, Swift.
- Heart Disease Prediction (individual, 2018): data science applied to heart disease risk prediction with 85% accuracy. Data wrangling, analysis, modeling and evaluation in Python

## SKILLS

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- Infrastructure: Kubernetes, Docker, Terraform, Helm, UNIX, IBMCloud, AWS (basics)
- Language: Typescript, Python, Bash, Swift, ObjC
- Industry: e-commerce, vehicles, mining
- Technology: blockchain, web, mobile
- Personal: leadership, dependable, enjoy learning

## EDUCATION

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- University of Amsterdam, M.S.C. in Computer & Information Science (2016)
- University of Amsterdam, B.A. in Information Studies with Minor in Computer Science (2014)