

# JIRÍ DOKOUPIL

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## EXPERIENCE

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### **William Hill**

January 2017 – present

*System Engineer*

- Project SSBT (self-service betting terminal)
- Project ROSi (Retail Operating System Interface) - Betting terminals for the US market
- Managing Retail's WHC (William Hill Cloud) microservices (~50 microservices per environment, 5 environments in total, typically 3 nodes per stack)
- Managing SSBT's operating system (as of mid-2019 there is ~4000 SSBTs all across UK)
- Brocade/Stingray traffic managers management for load balancing, proxying and writing TrafficScript scripts
- Migrating vSphere hosted services to WHC
- Migrating WHC microservices to Marathon/Mesos
- Migrating Marathon/Mesos to AWS
- Migrating entire William Hill Retail puppet codebase from Puppet Community Edition 3.8 to Puppet Enterprise 2018
- Puppet based orchestration (masterfull on server-side and master-less on SSBTs)
- Low lever operating system system engineering utilising UEFI, modifying rEFInd bootloader to support additional touchscreen devices
- Responsible for automated OS install on encrypted partitions, custom initramfs
- Developing new point-of-sale and betting kiosk OS for William Hill US
- Coin/note acceptor firmware management tools development and deployment
- Spawning new environments and developing tools to switch environments

### **Sky Betting and Gaming**

February 2016 – December 2017

*DevOps Engineer*

- Working on Sky Vegas
- Managing deploy process in Chef
- Splitting micro-services
  - Mainly OpenBet services running on Apache Tomcat
    - FOG, RGI, OXi, GCM, etc.
- Gaming DevOps Engineer on Disaster Recovery project
- Designing Jenkins CI jobs
- Redesigning virtual servers
- Server migration between vSphere clusters

### **AVG Technologies**

May 2015 – January 2016

*Cloud Engineer*

- Contractor/freelancer
- Designing and deploying cloud infrastructure solution supporting new services
- Working on projects ZEN, ZEN2 (next generation ZEN) and UACloud
- Designing VPC startup and runtime automation using CloudFormation

- Designed and implemented masterless Puppet EC2 setup with CodeDeploy
- Integrated Atlassian Bamboo into AWS/CodeDeploy/Puppet scheme
- Working with site-to-site VPN solution CheckPoint
- Working closely with ZEN2 micro-service Locator
- In charge of monitoring and logging solutions for all AVG's Amazon cloud projects - Zenoss, Sumologic
- In charge of transfer from in-house datacenter to Amazon for UACloud project
- Designing new deployment process using Docker containers

## **Gamblified**

2013 – December 2015

*CIO / company owner*

- Co-founded and built new company doing business gamblifying mobile games (Dead Trigger, Hillclimb etc.)
- Formed the company from scratch
- Created and maintained company budget
- Formed the initial idea
- Wrote the business plan
- Led the investment negotiations
- Responsible for whole IT, R&D and IT operations
- Managing IT and business processes
- Actively developing multi threaded server daemon in Oracle Java
- Managing employees including game devs for Android, iOS and web in Unity Pro
- Chief software architect
- Responsible for sales strategy and representation with customers
- Exhibited on Global Gaming Expo 2015 in Las Vegas at Scientific Games booth
- Successfully negotiated and signed a contract with Scientific Games inc.
- Failed Scientific Games' due-diligence because of investor's crime record
  - Ivo Valenta  
Owner of Synot
- Unfortunately the business model proved not to be feasible without being able to operate on the US market
- Closed the company after a year and a half from the incorporation date and approximately 3 years after the initial idea
  - Synot ICT has invested CZK 1M (approximately USD 40k)
  - Madfinger games has invested CZK 2M (approximately USD 80k)

## **AVG Technologies**

June 2014 – October 2014

*Cloud Engineer*

- Contractor via CoolPeople
- Created new design for cloud computing in AWS and partially deployed it
- My solution is a foundation for future development of nearly all AVG's activities with Amazon technologies
- Created proof-of-concept solution for project ZEN
- Designed and implemented availability zone failover for NAT instances in AWS
- Deployed site-to-site VPN connection between Cisco 3800 routers and AWS VPC endpoints
- Deployed ZEN into production environment
- Interrupted due to activities in Gamblified s.r.o.

## **Kajot**

June 2012 – May 2014

*Linux Admin/Developer*

- Designed and developed system for gaming machine deployment and remote setup (similar system to Salt or Ansible)
- Responsible for 3–5 servers in production
- Managing approx. 10,000 linux gaming machines in production
- Development of operating system security features, certificate and license management system
- Created a RHEL KVM virtualization cluster for internal purposes
- Executed live machine transition from Linux From Scratch to Debian
- Designed, developed and executed updates of the new Debian machines
- Working with encrypted CompactFlash storage by WiBu
- Working with Cisco routers, Cisco L2 and L3 switches

## **EDUCATION**

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**Northumbria University**

April 2019 – present

*IT/Cloud Ops Masters*

- Started a masters degree study at Northumbria University

**Brno University of Technology**

2013 – 2014

*Computer Networks and Communication*

- Study terminated
- <https://www.fit.vutbr.cz/>

**Brno University of Technology**

2009 – 2013

*Information Technology*

- Graduated
- BSc.
- <https://www.fit.vutbr.cz/>
  - Thesis name: Cluster Solution for High Availability OpenVPN

## TECHNICAL STRENGTHS

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<b>Scripting Languages</b>	Python, Perl, Bash
<b>Programming Languages</b>	C, C++, Java
<b>Software &amp; Tools</b>	Jenkins, git, L <sup>A</sup> T <sub>E</sub> X, Bamboo, AWS
<b>Pet projects &amp; tech</b>	Arduino, Terraform, Ansible, 3D printing, OpenWRT, Google Cloud, Cisco network gear, Prometheus, Grafana, Docker swarm

## LANGUAGES

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English - Full Professional Proficiency

Czech - Native

Russian - Intermediate

Italian - Elementary

## MISCELLANEOUS

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GNU/Linux administration Amazon Linux, Arch Linux, Debian, RHEL, Fedora, CentOS, Gentoo, OpenWRT

Exotic architectures: Worked with Debian GNU/Linux on UltraSPARC ULTRA60

Running a personal networking lab

Cisco CCNA – Completed all 4 parts (I1C and I2C courses in University)

Drivers license (CZE) cat. B (Vehicles up to 3.5 tons)