

CURRICULUM VITAE

BRETT JOHNSON

I am deeply interested in the underlying engineering that goes into systems, applications, networks and the security surrounding these.

I enjoy learning new skills, whether by teaching myself or learning from others.

I thrive on working in interesting environments with smart people where we can exchange knowledge, learn from one another and collaboratively solve challenging problems.

SKILLS SUMMARY

I've been working in and around systems, cloud infrastructure, networks and the security of these since 2008.

Experience with systems and cloud infrastructure

- Skilled with linux and freebsd systems
- AWS, GCP and Azure
- Orchestration experience with Terraform, Cloudformation and aws-cli
- Configuration management with Ansible, Chef, Puppet , Salt, Rancid and Oxidised
- Container experience with docker, lxd and kubernetes deployments
- CI/CD pipelines with jenkins
- Relational DB's - Mysql, postgres
- Timeseries DB – influxdb
- Automation with python and bash

Experience with security engineering

- Vulnerability assessments and penetration testing network, systems and cloud infrastructure.
- Experience building infrastructure and tooling to support red and blue team operations.
- Building infrastructure for endpoint tracking using opensource tooling, eg, osquery and fleet.
- Experience attacking, auditing and hardening OS's, containers, kubernetes deployments and ci/cd pipelines.
- Experience with automating security operations tasks, incident handling and logging and alerting
- Building ddos mitigation infrastructure, tooling and logging/alerting pipelines

Experience in network engineering

- Multi vendor experience not limited to Cisco, Juniper, Alcatel, Checkpoint, Arista, Riverbed, Fortinet, F5.
- Experience working with carriers, isp's, hosting providers and in large enterprise environments.
- Working proficiency with switching, routing and firewalling, routing protocols ospf and bgp, label switching with mpls, vxlan, evpn and metro ethernet deployments.

Experience with automation and scripting

- Experience with automating network, security and cloud operations tasks
- Experience building solutions ranging from automated prefix filtering in ISP's to service monitoring and self remediation tooling.
- Experience with bash, python, php and go lang

Experience with monitoring and observability

- Experience building monitoring and observability infrastructure using opensource tooling such as librenms, observium, Nagios
- Experience with Netbox as a source of truth and IPAM
- Experience building logging infrastructure using ELK, Grafana, Prometheus,graylog
- Experience writng code for service monitoring and graphing metrics for services such as radius, tacacs, sql query times, api latency

TERTIARY EDUCATION

Programming Diploma	- Computer Training Institute
Project Management Diploma	- Varsity College
BSc Computing	- University of South Africa (Incomplete)

CERTIFICATIONS

Cisco: CCNA, CCNA Security, CCIP, CCNP
Juniper: JNCIA, JNCIS-SP, JNCIS-SEC
Fortinet: FCNSA

INDEPENDENT COURSEWORK

Coursera

Startup Engineering - Stanford University
Software Security - University of Maryland
Software Defined Networking - Georgia Institute of Technology

Codecademy

Ruby, Learn Ruby on Rails, Ruby on Rails Authentication and Python

Sensepost

Hacking by Numbers

Code Repository

<https://github.com/bretttrsa>

Current and Previous Roles

Irdeto BV - Video Engineering Group

- Platform Engineer – Infra, Security and Tooling
- Hoofddorp, Netherlands
- Jan 2021 – Present

Irdeto BV - Tech Ops – Networks and Security

- Infrastructure Security Engineer
- Hoofddorp, Netherlands
- August 2018 – January 2021

Three6five – Regional IP Engineering

- Consulting Engineer
- Durban, South Africa
- August 2018 – January 2021

Dimension Data

- Network Security Engineer
- Durban, South Africa
- June 2008 - Jan 2012

IUA

- Systems Administrator
- Durban, South Africa
- June 2006 - June 2008

KZN Touch Screens

- Systems Administrator
- Durban, South Africa
- March 2006 - June 2006

Alvern Cables

- Systems Administrator
- Durban, South Africa
- March 2006 - June 2006