

Brad Spink

SOFTWARE ENGINEER

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github.com/bspink



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I am a passionate, experienced software engineer, versed in a range of open source tools, programming languages and cloud technologies. I hold software best practices core to my values, and take great pride in producing high quality software.



SKILLS

Languages (Expert Level)

- Python 2/3
- Go
- JavaScript / ECMAScript
- bash

Platforms/Frameworks

- asyncio
- Node.js
- Django
- Flask

Tools

- Docker
- Kubernetes
- git (GitHub, Bitbucket)
- AWS (EC2, S3, RDS)
- Consul

Databases

- PostgreSQL
- MongoDB
- Elasticsearch
- Redis
- Memcached

Messaging

- 0MQ
- RabbitMQ / ActiveMQ
- HTTP/RESTful APIs
- AWS SQS
- MQTT



EXPERIENCE

PCCW Global (Australia)

<http://www.pccwglobal.com/en/>

Senior Software Engineer

Nov 2017 - Present

Continuing role in the Service Layer team after successful acquisition of Console Connect by PCCW Global, a multinational leader in the telecom industry.

- Total re-write of the Service Layer architecture in ~3 months to support Cisco MPLS network.
- Designed and implemented a ZMQ/HTTP -> ZMQ messaging proxy in Go
- Designed and implemented an SNMP poller service, using asyncio, to poll and store network device data for the entire PCCWG MPLS network
- Worked on integrating the VeloCloud SD-WAN product with the Console Connect platform
- Helped implement the CI/CD pipeline in Jenkins for python + go + node microservices (running on docker/kubernetes)

Console Connect Inc.

<https://consoleconnect.com/>

Senior Software Engineer

August 2016 - Nov 2017

Continued working on the Console Connect SDN platform in the Service Layer team, using Python and Go to create automation services/applications for network configuration for devices - this included working on devices from different manufacturers, using different protocols in OSI layers 2 and 3 (including MPLS and BGP).

- Designing and implementing distributed microservices in both Python 3.6+ (asyncio) and Go, using 0MQ and HTTP/REST, migrating away from STOMP over ActiveMQ
- Handling concurrent access to switches/routers for applying dynamic configurations over SSH
- Working with frontend teams to develop service APIs (using json-schema)
- Led SL engineering for the implementation of world first CloudNexus product
- Mentored other team members about Python and general software best-practices

Node.js API Developer

Apr 2016 - August 2016

Working on the Console Connect SDN platform in the API team, creating a RESTful API to be consumed by both the frontend teams and the business workflow engine.

- Worked on migrating from a custom in-house MongoDB framework to Mongoose
- Started elasticsearch integration to allow for faster searching of stored data
- Implemented support chat feature using WebSockets

APN ARM (owned by News Corp)

Senior Web Developer/DevOps

Nov 2008 - Apr 2016

<http://apnarm.com.au/>

Working primarily as a backend web developer with Python/Django (also ops/architecture and some frontend JS work), in a small agile team, building and maintaining a large number of (40+) regional news/classifieds websites running on one platform, with high traffic and uptime requirements (~15 million hits per month).

- Designing/implementing/running high traffic Django web servers (caching, scaling, zero-downtime releases)
- Ops support for our platform (running on Amazon Web Services), including performing production releases, and improving development and deployment automation and tooling.
- Developing REST APIs for consumption by our mobile apps.
- Integrating third-party data sources and applications into our core CMS platform.
- Mentoring both backend and frontend junior developers.

iseek Communications

Software Developer

2008

<https://www.iseek.com.au/>

Java developer working on a telephony and internet provisioning system, including major migration of existing postgresql database to a new structure/codebase.

SecurityMail / SEMA Group

Software Developer

2007

<http://www.semagroup.com.au/>

Working on bulk mailing/marketing strategies, sanitising bulk data for clients (including ATO) and platform-specific tooling to help implement mailing strategies



EDUCATION

Queensland University of Technology (QUT)

Software Engineering

Bachelor's Degree

2003 - 2006



INTERESTS

American BBQ

Powerlifting

Movies

Music

Camping