David Briggs

Software Engineer

Contact

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Education

University of Waterloo
B. Computer Science
2015-2020

Website

dpbriggs.ca

GitHub

github.com/dpbriggs

LinkedIn

linkedin.com/in/dpbriggs
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Skills Summary

Technologies:

- AWS
- Django
- Docker
- Flask
- GRPC
- Git
- Kubernetes
- Postgres
- Quill
- React
- Redis
- Unix & Shell tools

Proficient in:

- Rust
- Scala
- Python
- Javascript
- C/C++
- Bash
- Shell Tools
- Emacs & Vim

Work Experience

SOFTWARE ENGINEER (SPLUNK PHANTOM)   September 2019 - December 2019
Assisted Python3 transition with a focus on security and automation tooling.
- Refactored a C++ Python2 interpreter spawner to support Python3.
- Identified, reported, and closed a variety of frontend and backend security issues.
- Developed a Slack-style slash-commands automation feature in a C++/Django stack.

SOFTWARE DEVELOPER (ZENREACH)   January 2019 - April 2019
Helped engineer and deliver Google Ads integration for the Ads product.
- Spearheaded the Google Ads and Campaign Abstraction microservices, using Scala, GRPC, Postgres, and Redis.
- Engineered a generic caching strategy to improve metrics API speed by 20X in Scala with Redis and GRPC.
- Wrote detailed design documents for Databasing, Caching, Google Ads API usage, and Audience Generation, with JIRA tickets.

R&D SOFTWARE ENGINEER (OPENTEXT)   May 2018 - August 2018
Researched enterprise grade container solutions (Docker & Kubernetes).
- Developed a service discovery abstraction service in Python/Bash, used to increase flexibility of offerings and lower maintenance costs.
- Researched virtual machine snapshot style containerization with Kubernetes.

SOFTWARE ENGINEER (TRANQUANT)   September 2017 - December 2017
Designed and developed systems for software and container deployment.
- Developed a graph-based container framework with a React frontend.
- Significant Dev-Ops work with AWS; ECS, EC2, and more.

APPLICATION DEVELOPER (DOCTORCARE)   January 2017 - April 2017
Designed and Developed a medical digest report pipeline and website.
- Created a report-making pipeline to automatically collect, parse, and store medical finance information.
- Developed a Django website to create PDF finance reports, using Print CSS, Postgres, Redis, Weasyprint, Django templating & ORM.

FULL STACK DEVELOPER (POLAR)   May 2016 - August 2016
Developed stack-wide sellable features and supervised other co-ops.
- Researched, delegated, and developed features in a Django/React stack.
- Improved product responsiveness by 50% on average.

Projects / Contracting

REDIS-OXIDE   2019 - Present
Protocol-compatible, multi-threaded implementation of Redis in safe Rust. Written with Rust, Tokio, and Serde. https://github.com/dpbriggs/redis-oxide

R&D SOFTWARE ENGINEER CONTRACTOR (OPENTEXT)   September 2018 - December 2018
Technically reviewed issues and projects to speed up development. Developed Kubernetes solutions further. Assisted new members with git, code review tools, linux knowledge, and products.

SYSTEMS CONTRACTOR (DOCTORCARE)   May 2017 - August 2017
Technically reviewed major projects and issues, saving up to 50% on development time. Assisted with co-op hiring process to ensure good technical fit.

Interests: Mathematics, linux, emacs, cryptography, working out, cooking.