David Briggs

University of Waterloo Undergraduate

Contact

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3B Computer Science
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GitHub

github.com/dpbriggs

LinkedIn

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Skills Summary

Technologies:

- AWS
- Django
- Docker
- Docker-compose
- Flask
- Git
- Kubernetes
- Node.js
- Postgresql
- React
- Redis
- Unix & Shell tools

Proficient in:

- Python
- Javascript (ES5/6)
- React
- CSS
- HTML
- C/C++
- Shell Tools
- Bash
- Shell Tools
- Emacs & Vim

Work Experience

Spring 2018   **R&D SOFTWARE ENGINEER (OPENTEXT)**
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.
- Architected virtual machine snapshot style containerization with a Kubernetes deployment scheme.

Fall 2017   **SOFTWARE ENGINEER (TRANQUANT)**
Designed and developed systems for software and container deployment.
- Developed a graph-based container composition framework with a React frontend.
- Designed and implemented an event-based python framework.
- Significant Dev-Ops work with AWS; ECS, EC2, and more.

Winter 2017   **APPLICATION DEVELOPER (DOCTORCARE)**
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, Postgresql, Redis, Weasyprint, Django templating & ORM.
- Used Docker and docker-compose for automated deployment.

Spring 2016   **FULL STACK DEVELOPER (POLAR)**
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.

Contracting / Projects

Spring 2018   **R&D SOFTWARE ENGINEER (OPENTEXT)**
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.

Winter 2018   **HTTP API PROXY**
Easy to use, plug and play API authentification for HTTP services. Intended for container proxying. https://github.com/dpbriggs/http-api-proxy
Key Tech: Flask, Python, Docker

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

Education

2015–2020   **Candidate for Bachelor of Computer Science**   University of Waterloo
3B Student, 78% CAV

Interests: Mathematics, software, unix, cryptography, working out, cooking.