

Derek Howard

howderek.com

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github.com/howderek

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SUMMARY

I transform complex services into simple interfaces.

Skills (5+ years) JavaScript, Linux administration, Node.js, Python, photography, SQL, Web development, visualization

Skills (3-5 years) d3, data science, Flask, microservice architectures, Pandas, REST API Development, Vue.js

Skills (1-3 years) C, C++, Django, Docker, Puppet, hardware, Lustre, virtualization, network administration, ZFS

EXPERIENCE

University of Missouri

Columbia, Missouri

Division of IT - *Research Linux Systems Administrator*

2018 - Present

- Developed Python framework that automated internal processes, saving more than an hour per day
- Improved and maintained an HPC cluster of ~300 machines using a Git/Puppet workflow
- Provided face-to-face support to end users and stakeholders, working with experts in many domains

College of Agriculture, Food, and Natural Resources - *Research Assistant*

2016

- Collaborated with a researcher to visualize and generate reports from a novel forestry database

Mizzou K-12 - *JavaScript Developer*

2015 - 2017

- Enabled teacher collaboration by developing a real-time web application to coordinate grading

College of Agriculture, Food, and Natural Resources - *Web Intern*

2014 - 2015

- Improved static site deployment process, saving 30 minutes per day of developer time

Contract Work

Linux Foundation/CHAOSS - Augur (<https://github.com/chaoss/augur>) - *Creator / Technical Advisor*

2016 - Present

- Created a Flask (Python) and Vue.js web application that visualizes open source software communities
- Architected microservice architecture that allows distributed data collection into a normalized database
- Led a small team of developers to create software now used by some of the largest software companies
- Designed a data science workflow that enabled Pandas data analyses to be exposed via a REST API

Derek Howard, LLC - *Owner*

- Built a Django, d3, and Vue.js web application for a fast-growing educational technology company
- Photographed portraiture and wedding clients. Photography portfolio: <http://derekhoward.me/>

EDUCATION

Junior at University of Missouri, *B.A. Interdisciplinary Studies; Comp. Sci. minor*

Expected Graduation: 2023 (part-time)