

Ben Kolb

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SOLUTIONS

BACKEND

Services:

RESTful API • GraphQL API •
Publish & Subscribe

Database:

PostgreSQL • AWS DynamoDB •
MySQL

DEVOPS

Orchestration:

Docker • Kubernetes • Serverless

Administration:

Ubuntu • VMWare • ProxMox

CI/CD:

AWS • Github Actions

FRONTEND

Web:

React.js • Gatsby.js • SASS

SKILLS

LANGUAGES

Python	<div><div></div></div>	4+ yr
Javascript	<div><div></div></div>	3+ yr
HTML	<div><div></div></div>	3+ yr
CSS/SASS	<div><div></div></div>	3+ yr
Bash/Shell	<div><div></div></div>	3+ yr
Golang	<div><div></div></div>	0.5 yr
C++	<div><div></div></div>	0.5 yr

FRAMEWORKS

Proficient:

Express.JS • React.JS • Docker
Flask • Terraform

Familiar:

Serverless

LINKS

Github:// bolbken
LinkedIn:// bolbken



EXPERIENCE

THINKIQ | BACKEND SOFTWARE & SYSTEMS ENGINEER

Sep 2019 - Aug 2020

PYTHON PACKAGE & APPLICATIONS

- Design and ownership of python package SDK
- Built, tested, and deployed containerized python backend applications
- Development of high throughput time-series data ingestion systems
- Lead team to breakthroughs in traceability logic development

POSTGRESQL DATABASE

- Implemented PL/pgSQL scripts to ingest and process raw data
- Extended database functionality with traceability features
- Owned and maintained PostgreSQL on-prem and cloud deployments

KUBERNETES & DEVOPS

- Deployment of containerized software solutions to on-prem and cloud kubernetes clusters
- Implemented full-stack solutions from development to deployment
- Created reports and monitoring using ELK stack

AVID SOLUTIONS | SYSTEMS ENGINEER

June 2017 – Sep 2019

- Developed software applications utilizing MySQL and WonderWare (.NET)
- Owned design to deploy of over four dozen validated skids
- Developed real-time control and monitoring solutions of time-series data

EASTMAN CHEMICAL | SYSTEMS ENGINEER | CO-OP

Jan 2015 – Dec 2015

- Implemented MySQL database for research and quality management
- Created live, dynamic reporting dashboards utilizing MySQL
- Deployed process critical control system prediction algorithm

HNU NANOPPOINT | SYSTEMS ENGINEER | CO-OP

Sep 2013 – Dec 2013

- Developed embedded software for biological instrument sensors
- Designed software solution for large-scale industrial battery management

PROJECTS

MEANDERING.ROCKS | OUTDOORS BLOG

2020 - present

- Developed AWS Lambda Serverless RESTful API paired with AWS DynamoDB
- Designed static website with React.JS, Gatsby.JS and SASS
- Deployed application declaratively using Terraform and Serverless Framework

EDUCATION

VIRGINIA TECH | BSC. CHEMICAL ENGINEERING

May 2017

- Undergraduate researcher in 3D printing and electrochemistry labs.
- Winner of 2014 Chemistry Dept. Research Symposium
- Memberships: Entrepreneur Club, Green Club, Rock Climbing Club