JASON KIM



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SUMMARY

- Experience with Python, Java, Javascript, Kafka, Kubernetes, Docker, PostgreSQL, Django, Spring, React.js, Redux
 - Interested in distributed systems, cloud architecture, data engineering, and data visualization

EXPERIENCE

FORMLABS | SOFTWARE ENGINEERING INTERN

Boston, MA | Sep. 2018 - Aug. 2019

Dashboard Team developing customer-facing web dashboard for 50k active users & core Formlabs API with 57m+ daily throughput

- · Shipped Formlabs Developer API as containerized service designed Django based REST API, created multi-environment server settings for OAuth 2, rate limit, and memcaching, and configured Kubernetes models for pod connections, Ingress, and load balancing
- · Shipped remote print feature for Formlabs API developed data pipeline between printers, the API, and in-house software services, as well created custom Python based AWS Lambda operator to automate print job uploads and validations to AWS S3
- · Integrated Kafka into core web infrastructure streamlined printer requests into multiple Kafka topics, created core consumer group for data consumption to the API, as well centralized Kafka Connect instance from Kafka to production Amazon RDS database

ECOBEE | SOFTWARE ENGINEERING INTERN

Toronto, ON | Jan. - Apr. 2018

Admin Portal Team developing multiple help-desk features for ecobee products; currently in used by 100+ customer support employees

- · Developed advanced filter feature for ElasticSearch based search engine, enabling pre-filtered data streams from Kafka clusters to in-house microservices via Kafka Stream
- · Integrated OAuth 2 flow between high-traffic microservices and created secured data pipelines to AWS S3 via signed URLs in Java
- · Implemented metrics monitoring system by constructing JMX, Prometheus, and Grafana instances as part of Docker containers

CHEFHERO | SOFTWARE ENGINEERING INTERN

Toronto, ON | May - Aug. 2017

Product Team developing the company core product

- · Automated user registration by developing interactive sign-up flow in React.js/Redux & Python based API design in Google App Engine
- · Overhauled the company landing page using React.js by minifying and componentizing a Jinja based legacy codebase
- · Integrated analytics architecture using Google Analytics, as well a live Intercom chatbot to construct active user feedback pipeline

ROGUE WAVE SOFTWARE | SOFTWARE DEVELOPER INTERN

Ottawa, ON | Sep. - Dec. 2016

Core Team developing main functionality of Klocwork, a static code analysis tool for IDEs

- · Built a multi-environment caching feature to improve run-time of Python automation test suites by 23%
- · Developed a test failure per-build comparison tool using TestLink API, currently in use by 20+ employees

PROJECTS

GRAPHQL API Ecobee hackathon project overhauling legacy RESTful API into GraphQL queries and mutations (React.js, GraphQL)

EMOTIONTUNES Web app that generates music playlists based on emotions detected via facial expression recognition (React.js, Emotion API)

MEMORYBOUND Desktop calendar app, per-user & authenticated reminder logging feature with multi-threaded notification capabilities (Java)

EDUCATION

UNIVERSITY OF WATERLOO

Waterloo, ON | Sept. 2015 - Present

Candidate for BASc Mechatronics Engineering

- · President's Academic Scholarship
- · Relevant Courses: Algorithm and Data Structures (C++), Real-time Operating Systems (C), and Engineering Statistics