LUKE VAN BERGEN

SOFTWARE ENGINEER | LOS ANGELES, CA

lukepvb@gmail.com || github.com/lukepvb || linkedin.com/in/lukepvb

---

TECHNICAL SKILLS

Strong: JavaScript (ES6+), React, React Native, Node/Express.js, NoSQL, HTML5/CSS3, Webpack, Material UI, Bootstrap, Git
Experienced: AWS (EC2, S3, RDS, EKS), Kubernetes, Google Cloud Platform (GCP), Docker, Travis-CI (CI/CD), Jest, Redux, SQL, React-Hooks, SASS, Enzyme, Scrum, Dev-ops, TensorFlow.js

---

EXPERIENCE

SHIPM8 | OSLABS - SOFTWARE ENGINEER   2019-PRESENT
- In partnership with accelerator OS Labs (opensourcelab.io), built an open-source mobile application for monitoring Kubernetes clusters hosted on Amazon Web Services (AWS) and Google Kubernetes Engine (GKE), allowing users to view specific clusters and pertinent pod information
- Utilized React Native to build a mobile-friendly codebase that would easily translate from IOS to Android, supporting the use of JavaScript and reducing redundancy through implementation of React's component based architecture, ultimately streamlining the development process
- Employed Redux in order to persist and manage state, preventing unnecessary re-renders and the need for superfluous prop-drilling
- Made use of Redux Thunk middleware to handle asynchronous actions, allowing for the delay and/or conditional dispatch of an action
- Incorporated Jest to enforce test-driven development, taking snapshots of specific components and comparing to the working counterparts
- Utilized Docker to containerize application images and deploy Kubernetes clusters to AWS Elastic Kubernetes Service (EKS) and GKE, serving as production-grade testing sandboxes for K8s API queries
- Integrated custom AWS authorization using IAM secret ID and key, allowing users to gain access to cluster information from outside of AWS

OPEN SOURCE

FRESH FEED | SOFTWARE ENGINEER
- Utilized React to create and render reusable components, maximizing maintainability and modularity through the separation of stateful and presentational components
- Established SQL database, making use of its relational nature, enforcing ACID compliance and allowing for the shaping of meaningful data
- Utilized Webpack to create a custom configuration file, allowing for the bundling of various application files, resulting in reduced latency
- Incorporated Bootstrap's library of pre-configured CSS/HTML components, efficiently injecting styling while maintaining consistency

TRAVEL DIARY | SOFTWARE ENGINEER
- Implemented React Hooks, converting from class to functional components, allowing for the creation of custom Hooks and recycling of stateful behavior, ultimately cleaning up the existing codebase and enforcing best-practice in separation of file structure
- Integrated a NoSQL database, using Mongoose to create schema and document models in easily readable and accessible JSON format, improving query performance by pulling from a single document
- Used Node.js/Express to build out the server side of application, allowing for efficient handling of HTTP/API requests, and modularization of backend logic with more readable code

SORTERA | SOFTWARE ENGINEER
- Created a React based web-application in tandem with TensorFlow.js library for machine learning, allowing users to upload photos from a computer, generate a unique filename based on an image, and zip/download the files to a local machine
- Focused on creating a responsive web-based experience, utilizing React and CSS to account for various screen sizes

---

PUBLIC TALKS

ETHIQ SPEAKER SERIES | CONTAINER ORCHESTRATION SYSTEMS: KUBERNETES AND DOCKER SWARM   2019
- Presented on Kubernetes, Docker Swarm, and the modern implementation of container orchestration systems in microservice architecture

---

EDUCATION

UNIVERSITY OF VIRGINIA | BACHELOR OF ARTS AND SCIENCES | CLASS OF 2015   2011-2015

INTERESTS

- Weight-training, surfing north of Malibu, donation-based yoga, 72%+ cacao dark chocolate, full-bodied red wine, film and television, motorcycles, a strong cup of coffee, reading in a hammock, and acquiring new skills