

CHARLIE ZHANG

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SKILLS

Languages Java • JavaScript • Python • Go • Ruby • C • C++ • PHP
Full-Stack React • Backbone • jQuery • Android • Node • Rails • MySQL • PostgreSQL • MongoDB
Infrastructure Docker • Kubernetes • Terraform • Jenkins • ElasticSearch • AWS • GCP

WORK EXPERIENCE

Google | Software Engineering Intern (Android Dialer) Mountain View, CA | Jan – Apr 2019

- Built an internal Android tool to generate a dump of database and app state for debugging purposes
- Created a CLI and test bundle used by device partners to verify core app functionality in OEM devices
- Developed new features in the Simulator service to simulate RTT, spam, emergency, and conference calls

Webveloper | Software Engineer (Contract) Remote | Sep – Dec 2018

- Set up and deployed a centralized logging solution in production using Elasticsearch, Fluentd, and Kibana
- Introduced an SSO solution for internal services using S.S.Octopus and deployed it using Helm + Terraform
- Built a user authentication service using Node + PostgreSQL that is used by the Ambassador API gateway

Wish | Infrastructure Engineering Intern San Francisco, CA | May – Aug 2018

- Built a lightweight proxy in Go to load balance 10,000+ requests/s, perform health checks, and gracefully shutdown & restart on cluster failure & recovery, reducing failed requests by 40%
- Created a tool to automatically validate new Kubernetes services in the Jenkins pipeline against custom rules
- Developed a CLI to run services locally in Docker Compose, automating local development setup for all engineers

Shopify | Software Developer Intern Waterloo, ON | Sep – Dec 2017

- Developed full-stack features in Rails for the Wholesale storefront used by 3,600+ enterprise customers
- Built new UI components based on UX research for the Mobile Store iOS app using Swift + GraphQL
- Analyzed petabyte scale datasets using Hive & Presto to publish a report on app statistics & demographics

Meddo | Full-Stack Developer Intern Waterloo, ON | Jan – Apr 2017

- Launched critical product features for an early-stage productivity platform using React + Node
- Built a data ingestion tool to fetch, transform, and sync over 4,000 Jira issues into the platform
- Profiled and optimized Neo4j Cypher queries to reduce average API response times by 90%

Vena Solutions | Software Developer Intern Toronto, ON | May – Aug 2016

- Shipped features for highly requested functionality used by 500+ companies on the Vena platform
- Refactored the OLAP API to allow shared dimensions between multidimensional data models in MySQL

PROJECTS

Wish Pegasus A collaboration platform built using Rails + Elasticsearch. Won first place at Wish Hack 2018.
My Ordinary Life A minimalistic diary built with a full JavaScript stack. Deployed on AWS. www.myordinary.life
Rainy Life A customizable rain simulator. Used Cloudflare & S3 to globally serve assets. www.rainy.life

EDUCATION

University of Waterloo | Bachelor of Software Engineering Sep 2015 – May 2020 (expected)