

CHARLIE ZHANG

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SKILLS

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

WORK EXPERIENCE

Google – Software Engineering Intern Mountain View, CA | Jan – Apr 2019

- Developed new features in Java for the Dialer Simulator Service to simulate RTT, spam, 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 an authentication service using Node + PostgreSQL that will be used by the Ambassador API gateway

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

- Built a lightweight proxy in Go that can load balance 10,000+ requests/s, perform health checks, and gracefully shutdown/restart on cluster failure/recovery, reducing failed requests by 40%
- Created an open-source tool to validate Kubernetes manifests using customizable rules and integrated it into the Jenkins pipeline to automatically validate 20+ services
- Developed a CLI to run services locally in Docker Compose, automating local development setup for 50+ engineers

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

- Developed full-stack features in Ruby on Rails for the Wholesale storefront used by 3,600+ enterprise customers
- Implemented the search view and search bar for the Mobile Store iOS app using Swift + GraphQL
- Revamped the iOS product view with a new image gallery & variant picker built using UX research results
- 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 using React + Node, including the main dashboard, employee directory page, user onboarding experience, and 30-day free trial feature
- 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 using Backbone + Dropwizard for highly requested functionality used by hundreds of companies
- Refactored the OLAP API to allow dimensions to be shared between multidimensional models in MySQL, decreasing data store sizes and ETL processing times by 11%

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)

Cumulative GPA: 3.71 / 4.00