IAN CLARK

ian@ianleeclark.com

TECHNICAL SKILLS

Languages	Python, Go, Kotlin, C, Javascript, Haskell
Frameworks	Vue.js, Flask, Spring
Databases	MySQL, Redis, Postgres, Elasticsearch, Neo4j
Tools & Miscellaneous	Celery, Docker, Git, RabbitMQ
Github	https://github.com/GrappigPanda

EXPERIENCE

LeMans Corp. December 2016 - Present

Software Engineer

Utilizing Elasticsearch to serve as the primary search engine within our e-commerce platform

Writing microservices to revamp and serve as the new e-commerce backend.

Writing ETL pipelines to retrieve and sync e-commerce data from legacy (SQL Server) databases.

VirtuCrypt January 2016 - December 2016

Web Application Developer (Full Stack) & Cryptographic Key Manager

Rewriting a TCP duplexer in Go for a 3200% command throughput gain over Python.

Creating a new service offering (Transparent Encryption Layer) allowing for customers to encrypt and decrypt files on-demand utilizing third-party storage providers (AWS S3, Box, Google GCS, &c.) without giving access to encryption/decryption keys.

Developing a new database application layer allowing the back-end API to transition from using a third-party CRM (Sugar) to Postgres greatly improving back-end and front-end performance and saving the company over 10,000$ per year.

Architecting and building a customer-facing RESTful API (Python, Flask, Postgres) allowing cloud-based asymmetric key management, cryptography for point-of-sale devices, debit processing, and remote key injections.

Building customer-facing dashboards to utilize the back-end API in Vue.js and jQuery.

Increasing code test coverage for our main product by over 60%

Configuring and deploying Linux test, development, and production servers.

PERSONAL PROJECTS

Notorious Primary language: Go

Utilized technologies: Redis, MySQL, Docker

A feature-complete Bittorrent tracker used to serve Linux and BSD OS distributions. Implemented in Go using Redis to store and quickly serve (short-term) peer information, MySQL or Postgres to track (long-term) peer information, and Docker for Continuous Integration and Continuous Deployment.

Olivia Primary language: Go

Utilized technologies: Bloom filters, Distributed Hash Tables

A Distributed, NoSQL key-value storage utilizing bloom filters for efficient key searches throughout the network and built upon a distributed hash table.

EDUCATION

The University of Texas at San Antonio

Bachelor of Business Administration in Economics Date of Graduation: May 2015