

Carl Guan

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OBJECTIVE:

I am a full stack software developer keen on learning better software design practices and the complete lifecycle from development to production

TECHNICAL SKILLS:

Coding: JavaScript/TypeScript, Golang, Rust, Python, Lua, React

Operating Systems: Windows, Linux

Tools: Git, Bash, AWS, Jenkins, Kubernetes, Docker, Google Cloud

WORK EXPERIENCE:

Capital One | Software Engineer

(April 2021 – Present)

Currently working in an internal infrastructure team that owns a web application designed for use by company architects written in JavaScript and Golang which primarily organizes and provides company application data among various other features

- maintain and enhance a collection of golang batch functions that automatically run every weekday to update application database
 - address and fix unexpected collection failures such as database transactions or API error responses
 - improve performance of slow collections through various methods, such as updating the corresponding API, increasing batch throughput, or spawning more goroutine workers to handle larger loads
- built various backend features for JavaScript registration form to onboard new applications:
 - validate form responses and constructing a history of operations per form
 - add data collection of two new types by implementing batch functions (as described above) and adding new database table models that are updated daily and specifically for use in the form
 - send form response data to API to register/store the new application information and confirm successful registration

CVS Health | Software Engineer

(Oct 2020 – April 2021)

- develop NestJS backend microservices for a new yet-to-be released project, ensuring thorough unit testing with 100% code coverage, and supporting integration with frontend and testing teams
- set up Jenkins pipelines to deploy the new microservices as well as migrating legacy technologies to Google Cloud Kubernetes clusters

Tata Consultancy Services | Software Developer

(Sept 2017 – Oct 2020)

- Involved in development of several Java applications to eliminate day-to-day manual assignments and hours/days of wasted labor, dramatically improving productivity:
- Troubleshoot and improved client site to greatly reduce latency, enhance UI and fix issues such as browser compatibility and execution flow

EDUCATION:

Bachelor of Science in Computer Science, *Rutgers University*

May 2017

PROJECTS:

WaniKani Japanese Library Chrome Extension

Chrome extension written in ES6 JavaScript which calls a NestJS Rest API I created that stores and returns Japanese radicals, kanji, and vocabulary for quick and convenient retrieval in the browser when on the WaniKani website, streamlining the review experience

GamesDiscount

JavaScript and Java web application that uses the CheapShark API to find and/or filter and display the cheapest deals on games sold by online vendors. Link: <http://www.gamesdiscounts.co/home>