

Stephen Kent

Backend Software Developer

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About

I'm a backend web developer with several years of experience developing, maintaining, and managing cloud native web applications. In addition to implementation I have been responsible for driving the full development lifecycle, from design through to deployment, maintenance and operations and I am comfortable handling the demands of modern software projects. In my spare time I'm usually playing guitar (badly) or learning French.

Experience

Capital One

March 2016 - February 2023

Mid Backend Developer

Developed Cyber Security solutions to enable developers to build secure software early in the development lifecycle.

- Led architecture and design efforts for critical software components
- Designed and implemented core REST APIs via Express.js
- Wrote unit tests in Mocha.js
- Reviewed and mentored the work of Junior developers
- Wrote AWS Lambda functions in JavaScript and Python
- Designed and implemented distributed work queue systems with AWS SQS as well as Bull.js (similar to Celery)
- Wrote disaster recovery plans and carried them out during internal exercises
- Designed data models and indexing strategies in MongoDB and DynamoDB
- Met with stake holders to gather requirements and report project status
- Led Agile ceremonies such as sprint planning and review when needed
- Co-authored [US Patent No. 10,387,659](#) for the de-duplication of static source code security findings

CFPB

November 2014 - December 2015

Jr. Backend Developer

Built tools to facilitate consumer protections and regulatory oversight.

- Developed flexible software components in JavaScript
- Designed JSON schemas for defining linting rules
- Wrote unit tests in Mocha.js
- Developed REST APIs for querying against public data (Census, etc) via Express.js
- Wrote queries for MongoDB via Mongoose

FCC

March 2014 - November 2014

Jr. Backend Developer

Developed backend Python code for aggregating and displaying cellular internet performance testing results.

- Developed primary Python software components, including daily statistics aggregation
- Worked with stake holders to gather requirements and ensure the process was able to meet stringent regulations, especially regarding user privacy
- Designed and published maps using Tilemill
- Designed data models in Mongo for storing aggregate statistics
- Performed geospatial queries in MongoDB for bucketing results

Certifications

AWS Solutions Architect Associate

March 2022

Issued by [Amazon](#)

[Link](#)

Education

University of Maryland

Bachelors

Computer Engineering

Skills

Backend Development

Senior

JavaScript

NodeJS

Python

MongoDB

DynamoDB

PostgreSQL

Express

Swagger

Flask

AWS

IAM

VPC

EC2

S3

SQS

Lambda

Projects

EasyVocab

July 2022 - August 2022

📄 <https://ankiweb.net/shared/info/203110167>

EasyVocab is an Anki plugin I wrote to enable easy and automatic generation of flashcards for foreign language vocabulary study.

Users can input a list of words they would like to study and EasyVocab will use Google Translate to automatically generate beautiful flash cards. Google TTS is also utilized to create audio pronunciation for each word, and reverse cards which have English on the front and the user's target language on the back can also be created to help develop a two way association the words in both languages.