Justin Black

SENIOR SOFTWARE ENGINEER

PROFILE

Senior software engineer with 5 years of experience building server and client applications in Python, Kotlin, Golang, and Ruby.

LOCATION

San Francisco, CA

CONTACT

Email
LinkedIn
Github

SKILLS

------- ------- ------- ------- Python

------- ------- ------- ------- Grpc

------- ------- ------- ------- Java

------- ------- ------- ------- Kotlin

------- ------- ------- ------- Ruby

------- ------- ------- ------- Django

------- ------- ------- ------- Graphql

------- ------- ------- ------- Openapi

------- ------- ------- ------- Golang

------- ------- ------- ------- Rails

------- ------- ------- ------- React

WORK EXPERIENCE

• Senior Software Engineer – Pricing

UDEMY - PYTHON/DJANGO KOTLIN/SPRING   Mar 2021 - Now

- Launched 8 new currencies for course purchasing +increased revenue in updated locales
- Expedited course price fetch, 8k requests/sec, cache miss rate reduced from 15% to 2%
- Streamlined course price changes by consolidated course price points into one table + building update tooling for it

• Software Engineer – Subscriptions

UDEMY - PYTHON/DJANGO   Jan 2020 - Mar 2021

- Implemented Graphql queries + mutations, db models in a new subscription service
- Built application side of service authorization system to ensure scoped Graphql privileges

• Core Team Member, Open source API generation

OPENAPITOOLS, JAVA + PYTHON   May 2020 - Now

- Created the python-experimental generator with robust composition, spec case and no type coercion, supports inline schema generation at any depth and location
- Standardized java schema class storage of type info + validations: isString/minItems etc.
- Added java classes to store response headers and multiple content types
- Language reviewer for python client and server PRs

• Software Engineer – Shipping API

EASYPOST - RUBY/RAILS, PYTHON, GOLANG   Oct 2018 - Jan 2020

- Updated data transmission file format to the newest Usps csv standard (Golang)
- Added new shipping labels, updated others, added dpi to image files (Golang)
- Championed and integrated openapi for generation of clients to connect to mail carriers
- Developed and released two python microservices to transmit and ingest package info to new mail carrier services

• Software Engineer, Voice Bots Lead - Voice Communication

ORION LABS - PYTHON + FLASK   May 2017 - Oct 2018

- Developed and deployed 15 Python3 services, voice bots and chat bots for consumer and commercial customers: voice translation bot, if this then that (IFTT) bot
- Used latest technology to build bots: STT, TTS, Text and Speech Translation, NLUs, IBM Watson Assistant Conversation, Slack Bots, Microsoft Bot Framework
- Streamlined bot deployment by moving to serverless docker containers in AWS

PROJECTS

• Created python-experimental API client code generator

OPENAPITOOLS, JAVA + PYTHON

- Supports robust composition: oneOf/allOf/anyOf/not + spec naming kept
- Inline schemas supported of any depth supported at any location
- Payloads instantiated with validated dynamic schema base classes
- Type hints used, types checked at runtime, payload values are not coerced

EDUCATION

• Bachelors of Science in Mechanical Engineering

TUFTS UNIVERSITY   2003 - 2007