Gabriel Schroder

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About

Full-Stack Web Developer with a background in Mathematics and 6 years of professional
software development experience. Experienced in all aspects of the software development life
cycle. Propenent of modular, reusable code and paying down technical debt up front.

Skills

Planning & Process

Working With Project Stakeholders To Define Clear Project
Scope

Translating Business Requirements Into Technical
Specifications

Translating Technical Specifications Into Atomic Actionable
Units of Work

Structuring Task Order To Minimize Process Blockage &
Developer Downtime

Researching Software Libraries & Conducting Library
Suitability Assessments

Microservice Architecture

Data Design, Collection, Aggregation, Cleaning, Parsing,
Storage, Selection, & Representation

Database Normalization & Optimization

Rapid Prototyping

API Blueprinting & Implementation

External API Integration

Integration Test Planning & Implementation

Deployment Planning & Release Management

Threat Modeling

Key & Secrets Management

Git Workflows

Mentoring Junior Developers

Programming

Expert Level Knowledge
Python

Javascript

Bash

Working Knowledge
C

Java (Processing)

Databases

Relational
SQLite

MySQL

Postgres

Document
Elasticsearch

MongoDB

Web Tech

Front-End
HTML & HTML Template

Back-End
Flask

Scraping
Selenium

Engines	Django	Webdriver
CSS & CSS Preprocessors	DjangoCMS	BeautifulSoup
	Django Rest Framework	PhantomJS
Bootstrap	Express	
JavaScript		
jQuery		
AngularJS		
React		
Electron		

Devops Tools

Linux	Apache	Git	AWS CLI
Debian/Ubuntu	nGinx	Kafka	Lambda
CentOS	Let's Encrypt	Zookeeper	CodeDeploy
Fedora	OpenSSL	Cron	IAM
Backtrack/Kali	OpenSSH	Nmap	VPC
MacOS	OpenVPN	Curl	ELB
VirtualBox	Jenkins	IPTables	EC2
Docker	CirlceCI	GRUB	Cognito
Vagrant	Nagios	InitRD	Cloudwatch
SaltStack	Grafana	InitRamFS	Route53
Terraform	Wireshark	Dracut	SQS
Kubernetes	TCPDump	SysV/Init	SNS
Prometheus	Kibana	SystemD	SES
Helm	Logstash	Snort	S3

Experience

Terminal Labs
Consultant - Software Engineer
May 2018 - Present

https://terminallabs.com

Projekt202 - Tempur Sealy International
Inherited Django application for processing user survey results into displayed product recommendations

Created documentation for all functional aspects of the React front-end, the API, and the recommendation algorithm

Worked with product owner to assess feasibility of making a set of proposed changes within a very challenging time frame

Created a plan for refactoring the Django and React applications to meet business requirements

Created a demo web app in Vue.js for clients to see changes to product recommendations based on changes to values of product attributes

Reengineered recommendation algorithm

Projekt202 - RealMassive
Progressively gathered requirements from project stakeholders, software architects, front-end, and back-end engineers to inform an evolving specification for a unified authentication system for several discrete services

Built prototype authentication middleware API to bridge the enduser React web application and the backend services to AWS Congito on Flask with Boto3

Devised and implemented encryption and token refresh scheme to prevent replay attacks on web application enduser tokens using AES-256 CBC

Wrote utility library to encrypt, decrypt, parse, and check the JSON Web Tokens passed between web application endusers and Cognito

Built lambda functions to parse Cognito output and direct information to multiple services

Launched exploration into using Moto3 library to create mock Cognito instance for test coverage

Worked with project owners to establish requirements for a complex multi-tiered RBAC scheme

Agrarian Labs

Worked on emergency migration of an agtech company's Golang geolocation monitoring platform from Dockerhub to Kubernetes on AWS

Created Helm chart for platform deployment

Setup platform-level monitoring for deployed services using Grafana on Prometheus

Setup an OpenVPN portal service on AWS for developers to access EC2 and databases

Wrote scripts to securely manage users of the VPN

Self-Employed
Day Trader
January 2018 - May 2018

Built an ETL Pipeline for market ticker data using Python, Kafka, Postgres, and Elasticsearch

Architected and implemented a set of microservices for processing market ticker data into indicators

Architected and implemented a service for executing trade actions based on data output from indicator services

Architected and implemented a system for modifying trade execution parameters and conditions based on results of trades

Wrote scripts to back-test strategies against historical ticker data

The Maven Network
Consultant - Front-End Developer / Devops
Engineer
June 2017 - January 2018

https://themaven.net

Worked with CTO to identify process and implementation bottlenecks and design solutions

Refactored the MVP version of front-end React application

Automated deployments using Kubernetes on AWS

Wrote tools to process output from Kubernetes queries and page response team on critical failures

Wrote Nagios scripts for monitoring service functionality

Wrote scripts for single-command development environment setup on Ubuntu

Worked with lead data scientist to create analytics dashboard for executives and partners

Blanketcat
Founder
November 2016 - May 2017

Fschk - A file system integrity system that stores and compares hashes of metadata

Kompoodah - A system for editing linux system images and adding nodes to a cluster by netbooting

Deepkg - A tool to transplant packages and binaries from one linux system to another

Optable Inc.
Lead Developer
March 2016 - July 2016

https://letsdumo.com

Identified scalability problems in existing MVP and subsequently formulated and implemented strategies to reduce technical debt as application functionality and business requirements evolved

Participated extensively in brainstorming sessions with founder to refine business model and presentations for investors

Wrote web-scraping/parsing programs for lead generation and asset acquisition

Set up source control, and established development workflows conducive to expanding development team

Planned and implemented transition from Cloud9 IDE hosting to Ubuntu on Rackspace

Set up and secured development, staging, and production server environments

Worked with founder to analyze and redesign UI/UX to be the most conducive to on-boarding end users and business

Wrote middleware to process and store user and business financial transaction data, integrating extensively with the Stripe API

Planned and implemented migration from SQLite to Postgres

Implemented financing calculations and integrated associated B2B transactions with Stripe API into application

Refactored front-end KnockoutJS application

Waivecar
Consultant - Front-End Developer
December 2015 - March 2016

https://waivecar.com

Fixed bugs in API built on BentoJS and created new endpoints for application

Fixed bugs inhibiting user flow and refactored substantial portions of inherited code-base built on Angular/Ionic/Cordova frameworks

Implemented new functionality in mobile app as per business requirements

Built dashboard to monitor location of cars and optimize fleet operations with Raspberry Pi running modified version of website built with React

Developed process to parse data from CAN Bus to determine which signals correspond to which car actions and wrote small Python library to automate process for fleet manager

Offerings Wholesale
Consultant - Full-Stack Engineer
September 2015 - December 2015

Worked with owner to outline requirements and construct a product inventory management system with MongoDB and MySQL using the KeystoneJS framework for user entries

Designed and implemented automatic updates in Quickbooks based on changes in PIM system

Planned and implemented endpoints for live update of eCommerce store front based on inventory

Created prototype for an in-store display that interacted with customer phones via bluetooth

CMD Agency

Front-End Developer
January 2015 - July 2015

https://www.cmdagency.com

Converted all content strings in jeld-wen.com site to function calls to accomodate multiple languages

Built POC for responsive adaptation of pre-existing jeld-wen.com that was adopted into current site

Built POC to demonstrate to possibility of movement from 3rd-party tools to made-in-house widgets for jeld-wen.com

Refaced jeld-wen.com homepage

Added analytics to Adec's Handpiece Selector web application

Created new pages for Intel Developer Tools website

Built a touch-screen kiosk application for use by Jeld Wen in a trade show

Built front-end for Schaaf Window site

References Available Upon Request