

Gabriel Schroder

Full-Stack Developer

Local to: Portland, OR

Work status: U.S. Citizen

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About Me

Professionally

I am a Full-Stack Developer with over 6 years of professional experience. My primary focus has been backend web work in Python and Linux DevOps, however I have done a considerable amount of front-end development in modern JS frameworks with modern build tools. I have the proven ability to learn and apply complex new skills in accelerated timeframes. While software is my hobby, and I genuinely enjoy working on all aspects of web software systems, I approach my work with understanding that we utilize these technologies to accomplish business objectives.

Personally

When I'm not building software, I like to write music, skateboard, go rock-climbing with my girlfriend, and read literature.

Experience

Software Engineering Consultant

May 2018 - Present

Terminal Labs - Austin, TX

Executed a diverse array of consulting, white-label, and audit engagements for agency, startup, and corporate clients in a range of sectors
Worked with a small team of Python and Linux DevOps domain experts to architect and implement solutions for clients

Highlights

Reengineered a recommendation algorithm to produce outputs in line with business requirements
Comprehensively documented the functional aspects of an orphaned Django API for a management team during a personnel transition
Built a prototype Vue.js application to demonstrate to executive leadership the utilization of user survey results
Designed and implemented a unified authentication system for several discrete micro-service applications
Built authentication microservice API to bridge a React application and Django backend to AWS Cognito with Flask with Boto3
Devised and implemented a JWT token encryption and refresh scheme to prevent replay attacks on web application enduser tokens
Wrote Python utility library to encrypt, decrypt, parse, and validate the JSON Web Tokens passed from web application to an API
Developed lambda functions to parse Cognito output and direct information to multiple services
Worked with a group of product owners to establish requirements for a complex multi-tiered RBAC scheme
Worked on an emergency migration of an agtech company's infrastructure to a Kubernetes deployment on AWS, when Dockerhub shut down
Set up infrastructure level monitoring for an AWS deployment using Grafana on Prometheus
Set up an OpenVPN portal service on AWS for a group of developers
Wrote a CLI tool to simplify adding and removing users from company's AWS VPN for management

Technologies

Python	React	Linux	Kubernetes	Atlassian Suite
Bash	Vue	AWS	SaltStack	GSuite
Node	Elasticsearch	Docker	Terraform	Microsoft Teams
Flask	MySQL	Docker Compose	Nginx	Git
Django	PostgreSQL	LXC	Apache	Slack

Day-Trader

Jan 2018 - May 2018

Self-Employed - Austin, TX

Studied markets and traded securities

Highlights

Built a pipeline for storing and processing ticker data streams 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

Technologies

Python	Flask	Kafka	PostgreSQL	Oanda Stream
Bash	Nginx	Linux	Elasticsearch	API

Front-End / DevOps Engineer

Jun 2017 - Jan 2018

The Maven Network - Seattle, WA (Contract)

Worked with a mid-size team of front-end developers to execute UI/UX designs and fix bugs
Worked with DevOps team to solve problems and make infrastructure enhancements

Highlights				
Led initiative to refactor existing monolithic React application into modular reuseable components				
Worked with data scientists to build analytics dashboard for processing millions of user events per second				
Configured and deployed services for a monitoring infrastructure to redeploy services or page an on-call DevOps engineer				
Wrote single step development environment setup script for engineering team				
Technologies				
Node	Linux	AWS	Kubernetes	Ansible
React	Elasticsearch	Nginx	Docker	Nagios
C#	Zookeeper	Kafka	Docker-Compose	
Lead Developer			Mar 2016 - Jun 2017	
Optable - Venice, CA				
Worked with founder as sole engineer to bootstrap product				
Highlights				
Finished and launched MVP				
Wrote a Flask application to process requests from the front-end with Stripe payment and ACH APIs				
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 more conducive to on-boarding end users and businesses				
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				
Rewrote KnockoutJS front-end				
Technologies				
Python	Node	Docker	Stripe API	Rackspace
Flask	KnockoutJS	Linux	Nginx	Jenkins
Full-Stack Developer			Dec 2015 - Mar 2016	
Waivecar - Santa Monica, CA (Contract)				
Worked with CEO and Fleet Manager to test, identify, and fix web and mobile application bugs				
Worked with Fleet Manager to configure and troubleshoot IOT devices for cars				
Highlights				
Built dashboard to monitor location of cars and optimize fleet operations				
Developed process and wrote Python library for parsing data from CAN Bus and matching signals to car actions				
Technologies				
Node	Angular	SASS	Ionic	
Python	React	Gulp	Cordova	
Freelance Web Developer			Jun 2015 - Dec 2015	
Knotech - Portland, OR				
Designed and built websites for a number of clients				
Highlights				
Designed and built a product inventory management system for a wholesaler				
Technologies				
Node	LESS	Jade	MySQL	
Express	SASS	KeystoneJS	MongoDB	
Front-End Developer			Jan 2015 - Jul 2015	
CMD - Portland, OR (Contract)				
Worked in a mid-size agile team to create and maintain web experiences for multiple clients				
Built proof-of-concept features that were used for client demos and incorporated into larger projects				
Highlights				
Built proof of concept for responsive adaptation of existing site that was adopted as current site				
Built proof of concept to demonstrate the possibility of movement from a paid third party tool to a made-in-house widget for a large client				
Built an interactive tablet application for a trade show that was adopted for use in hardware stores nationwide				
Added analytics from multiple vendors to several web applications				
Converted all content strings in large site to function calls to accomodate multiple languages				
Technologies				
PHP	Drupal	HTML	jQuery	Linux
Joomla	Django	CSS	Angular	Apache