

# Gabriel Morell-Pacheco

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## Education

### Worcester Polytechnic Institute

Aug 2008 to Jul 2013

Worcester, MA BS in Electrical and Computer Engineering

## Work Experience

### Wayfair INC

Oct 2019 to Present

#### Senior Software Engineer

- Python Engineer for ISC (International Supply Chain), working to replace a dearth of excel spreadsheets with automated systems.
- Designed and prototyped an in integration test harness for testing end-to-end across microservices
- Android development work for a container loading & unloading app for scanning in warehouses
- Customs broker integrations for automating customs brokerages at scale

### Admithub Inc

Aug 2018 to Oct 2019

#### Senior Backend Developer

- Involved in porting a series of meteorJS/mongo applications to a unified python backend
- Wrote tools for allowing partner data import and export from the system including:
  - Various SFTP frontends and backends to allow partners to push data and have it retrieved by the system
  - Designing and implementing a public API
- Implemented statistical tools to for coworkers to measure impact of the platform for students by visualizing metrics.

### Gecko Health Innovations

Oct 2013 to May 2018

#### Backend Developer

- Sole architectural design of Django backend service applications and fully automated provisioning via Ansible
- Developed asthma management application backend with secured API for multiple clients ( mobile applications / web )
- Optimized stack for responsiveness, aimed for <100ms, averaging 60ms responses
- Implemented Internationalization & timezone handling for patient schedules for those on the go
- Developed real time feedback service for patients using android and ios clients via celery and push notifications
- Created HTML Template emails & Graphical PDF Report Generation using matplotlib and reportlab

*Post-Acquisition By Teva Pharmaceuticals in Sept 2015:*

- Broke out monolith into event-driven, horizontally scalable, socketed microservices using crossbar.io
- Achieved Full end-to-end automation of stack deployment with server provisioning via bot
- Worked further to make datastructures generic for future medical software products
- Ran interviews and worked to grow the team

## Skills

### Frameworks / Platforms

Docker, Kubernetes, Django, Django Rest Framework, Jinja2, SQLAlchemy, Kotlin(Android), Werkzeug, Celery/ DJCelery, Redis, RabbitMQ (AMQP), Kivy, Twisted, Klein, Autobahn.py, Crossbar.io, Vue.js, Bootstrap, JQuery, markdown,

### Programming Languages

Python, SQL (MySQL, PostgreSQL), Kotlin, JS, bash, LESS, C, batch scripting

### Tools

Docker, Kubernetes, Ansible, Apache, Nginx, IntelliJ/PyCharm, SVN, GIT, Hammer (Source Engine Map Creation), Maya, Blender, Office Suites

### Misc

- Amateur radio KF5AVL (General)
- Experience with power tools, rapid prototyping equipment, and steel welding

### Electrical Engineering

- PCB board layout EAGLE/KiCad
- Experience with hardware/rapid lab/prototyping environment

## Personal/Learning Project Work

### LNLDB 2012

Nov 2012 to Jan 2015

Involves the replacement of an ancient (and somewhat quirky) perl CGI script written in 2001 with a more modern and robust website built in django