

# Patricia Penton

I'm a Software Engineer with a passion for learning new technologies and building useful web applications.

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## EMPLOYMENT EXPERIENCE

### 23andMe | Software Engineer

APRIL 2017 - PRESENT

- Builds internal web-based tools for our Research Team and Customer Care Team using **Django**, **Python**, and **MySQL**
- Works with a team of database administrators to manipulate relational database tables containing over 500 million rows using **MySQL**
- Designs and implements new features using test driven development

### 23andMe | Engineering Research Assistant

JUNE 2015 - APRIL 2017

- Used **HTML**, **CSS**, and **Sass** to build landing pages for research studies
- All landing pages were mobile responsive and cross-browser compatible
- Created automated emails using **Jinja** templates per specifications from our Marketing Team - debugged and tested email targeting using **pytest**
- Developed logic for **YAML** files that targeted web banners to specific subsets of 23andMe research participants

### US Centers for Disease Control | Microbiologist

OCT 2013 - JUNE 2015

- Sequenced the genome of *Corynebacterium minutissimum* - published findings in *Genome Announcements*
- Contributed 16S rRNA gene sequencing analysis and phenotypic data for MicrobeNet, a web-based tool for identification of microbial pathogens

## PERSONAL PROJECTS

### Personal Website & Blog | [www.patriciapenton.com](http://www.patriciapenton.com)

DEC 2017 - PRESENT

- Designed entire UX/UI and architecture for website
- Blog posts are created in **Django Admin** and saved on the backend in a **MySQL** database (locally) or a **Postgres** database (production)
- All static files are served through an **AWS S3** Bucket
- Deployments are performed through the **Heroku CLI**
- **JavaScript** and **jQuery** are used for the mobile navigation hamburger

## INTERESTS & ACTIVITIES

Olympic weightlifting, nutrition, swimming, poetry, speaking German

## TECHNICAL SKILLS

Python, Django, Flask, MySQL, HTML, CSS, Sass, Bootstrap, Jinja, JavaScript, jQuery, Node, YAML, Docker, Heroku, AWS S3, Git

## EDUCATION

### Bachelor of Science

Cell & Molecular Biology  
University of Cincinnati  
Honors Scholar, *cum laude*

## VOLUNTEER

### Sanctuary Homeless Shelter

*Food Prep & Dinner Server*

### SunWork Renewable Energy

*Solar Panel Installer*

## PEER-REVIEWED PUBLICATIONS

**Penton PK**, *et al.* Complete genome sequence of *Corynebacterium minutissimum*, an opportunistic pathogen and the causative agent of erythrasma. *Genome Announcements*. 3(2): e00139-1, 2015 March

Baxter C, Ngcapu S, Blackard JT, Powell EA, **Penton PK**, Abdool Karim Q, Abdool Karim SS. Impact of Tenofovir 1% Gel on Hepatitis B Virus Resistance in CAPRISA 004. *AIDS Research and Human Retroviruses*. 30(S1): A221-A221, 2014 October.

**Penton PK** and Blackard JT. Analysis of HIV quasispecies suggests compartmentalization in the liver. *AIDS Research and Human Retroviruses*. 30(4):394-402, 2014 April.