

Tyler Ethan P. Guo

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PROFESSIONAL EXPERIENCE

HealthTell *Immunosignature Diagnostic Platform*

San Ramon, CA

Software Engineer

Dec. 2018 – Present

- Consumed third party bio-bank's Swagger API and used Pandas to clean the data and commit changes directly into a PostgreSQL database eliminating spreadsheets and manual uploads
- Created an application utilizing Click and Batch files for Ellipsometry tool to transfer metrology process information directly into a MySQL database; reduced manual workload by 40 hours per month
- Built an application in C# to integrate a third-party SDK into Ultrasonic Mixing device to run protocols in succession, debug and log process times; reduced operational time by 60 hours per month
- Put a Metabase and PostgreSQL instance into production on an Ubuntu server and wrote SQL queries to create dashboards for company-wide analytics
- Constructed an ETL pipeline of all existing databases into a data warehouse using Singer and Jenkins for Metabase consumption

Intern, Bioinformatics and Software Development

Jul. 2018 – Dec. 2018

- Wrote unit and integration tests for internal applications and documented them via Sphinx
- Used Cookiecutter to create a standardized Python project template containing a CLI and nested Sphinx project for other engineers to leverage

Product Madness *Mobile Gaming*

San Francisco, CA

User Acquisition Analyst

Oct. 2016 – Jun. 2018

- Designed and maintained performance dashboards via Tableau for the User Acquisition team
- Automated email reporting and audience/exclusion lists via Python, SQL and the Gmail API
- Scripted ad-hoc optimization reports and SQL queries based on marketing campaign performance

TECHNICAL SKILLS

Programming

- Python (Pandas, Numpy, SQLAlchemy, Flask, Django, Sphinx, Singer, Cookiecutter, Click, Selenium)
- JavaScript/HTML/CSS (NodeJS, jQuery, Bootstrap)
- C#
- Bash/GNU Make

Database

- SQL (PostgreSQL, MySQL, SQLite, Amazon Redshift)

Business Intelligence

- Tableau, Metabase, Redash

Continuous Development/Continuous Integration

- Jenkins, CircleCI

Other Technologies

- Docker, Git, AWS S3, Heroku

EDUCATION

University of California, Berkeley Extension

Berkeley, CA

Data Analytics Certification

2018

University of California, Davis

Davis, CA

Bachelor of Arts, Economics with a Minor in Education

2016