Weston Odend'hal

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TECHNICAL SKILLS

- **Proficient**: Python, NumPy, SciPy, Pandas, multiprocessing, Matplotlib, OpenCV, requests, statsmodels, BeautifulSoup, Jupyter Notebook/Lab, R, Plotly, C/C++, Bash, Linux, Git, GitLab CI/CD, Docker, DigitalOcean, Java, Maven, Tablesaw, Jakarta EE, Selenium, Pandoc, LaTeX, HTML, SQL, LDAP, PowerShell
- **Exposure**: Django, bqplot, C#, .NET, Racket, CSS, Gradle, LXD, Scala, Lua, Javascript/Typescript, SAS

WORK EXPERIENCE

Deloitte | Data Engineer | San Francisco, CA   Jul. 2019 - Jul. 2020
- Created data pipeline to aggregate and clean user login data across a distributed environment with PowerShell scripts and LDAP database queries, saving about an hour of manual work gathering this data each week.
- Automated analysis of user login data with a Java program using the Tablesaw library to generate daily and weekly login statistics, saving another hour of manual analysis each week.
- Introduced a new process to generate security scan crawls using Selenium, saving 120 hours/month.
- Generated sanitized test data using IBM Optim to obfuscate Personally Identifying and Protected Health information from the production SQL Server database with close to half a million users.

Cal Poly | Teaching Assistant | San Luis Obispo, CA   Sep. 2018 - Jun. 2019
- Led office hours for a new class, helping students work through statistics and machine learning assignments using Pandas, NumPy, statsmodels, and SciKit-Learn for over 60 students.
- Troubleshoot environment installation issues including Python dependency problems, and explain solutions to students.

Cal Poly | Data Engineer (Research) | San Luis Obispo, CA   Jun. 2017 - Jun. 2018
- Cleaned and curated SAS datasets downloaded from the Panel Study of Income Dynamics, allowing researchers to access data in novel ways.
- Automated determination of optimal office hours for professors with a tool written in R using matrix algebra, saving about an hour of work for each professor every quarter.
- Created a custom PDF scraping tool to facilitate research in C using the Poppler library, allowing us to include new factors in our regression for a more accurate prediction.

EDUCATION

B.S. Economics; Minor Computer Science, *California Polytechnic State University*   Jun. 2019

PROJECT WORK

Home Lab | github.com/wodend/cloudflare-ddns   2020
Host infrastructure for personal projects, and learning new technologies.
- Host dockerized personal GitLab source control and GitLab pages behind HAProxy load balancer.
- Automatically renew LetsEncrypt certificates with DNS verification challenge using Cloudflare's API.
- Generate static HTML pages with MathJax for LaTeX using Pandoc Markdown.
- Manage subnet with DDWRT router using dnsmasq for local DNS, and DNS filtering.
- Operate physical Debian and Gentoo Linux infrastructure for hosting dockerized applications.

Pricing Differentials by Location | Research Assistant | github.com/wodend/hotel-scraper   2019
Model for pricing differentials by location for online travel sites with global data scraped using cloud resources.
- Created scraping tools for various travel websites using Beautiful Soup in Python to get price data.
- Scheduled multi-threaded execution of scraping at specified intervals with shell scripts deployed on DigitalOcean droplets.
- Created linear models based on pricing for each region, and used ANOVA analysis to determine statistical significance of differences in pricing based on region.