Weston Odend'hal

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GitHub: github.com/wodend **LinkedIn:** linkedin.com/in/wodend **AngelList:** angel.co/u/wodend

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, reducing time spent 50% and including previously unavailable data.
- Automated analysis of user login data with a Java program using the Tablesaw library to generate daily and weekly login statistics, reducing time spent by 90%.
- Introduced a new process to generate security scan crawls using Selenium, saving the client $12,000 per month.
- Generated sanitized test data using IBM Optim to obfuscate Personally Identifying and Protected Health information from the production SQL Server database with over 100,000,000 records for 450,000+ users.

Cal Poly | Teaching Assistant (Computer Science) | 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 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 100+ of GB's of previously unavailable data.
- Automated determination of optimal office hours for professors with a tool written in R using matrix algebra, saving 90% of time spent scheduling each quarter.
- Created a custom PDF scraping tool in C using the Poppler library to facilitate research, allowing us to include critical factors that were necessary for our linear regression.

EDUCATION

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

PROJECT WORK

Home Lab | DevOps Engineer | github.com/wodend/cloudflare-ddns Jun. 2019 - Present
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.

Differentials by Location | Data Engineer | github.com/wodend/hotel-scraper Feb. 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.