STACEY WRAZIEN ROSENFELD

stacey@wrazien.com
www.wrazien.com

EDUCATION

Cornell University Ithaca, NY
Master of Engineering, Computer Science

Drexel University Philadelphia, PA
Bachelor of Science, Computer Science
Concentrations: Artificial Intelligence, Operating Systems
Minor: Mathematics

RELEVANT SKILLS

Programming & Scripting Languages
Python, Java, SQL, C++, C, JavaScript

Software & Tools
Git, Mercurial, make, gcc, vim,
Django, Bottle, SQLAlchemy, LaTeX,
vagrant, puppet, Docker, AWS,
WEKA, scikit-learn, PostgreSQL, MySQL,
Apache Cordova, AngularJS

PROFESSIONAL EXPERIENCE

ShopRunner Conshocken, PA
`Python, AWS, Django, Bottle, SQLAlchemy, JavaScript, Docker, Vagrant, MySQL, Puppet, Bash`

Senior Software Engineer April 2017 - Present
- Lead a team to develop and launch a breath of products across multiple retailers, including out of stock alerts, the retailer data dashboard, and cart abandonment products.
- Support ongoing development of existing products on our retailer network.
- Scope and plan development work for team.

DevOps Engineer November 2015 - April 2017
- Setup, support and troubleshoot deployments of microservices using AWS.
- Built a python library to manage passwords and sensitive information across different environments using DynamoDB and KMS keys.
- Setup and support SFTP servers and Django site to easily maintain user access to SFTP servers.
- Maintained private wheelhouse to host our Python wheels along with current versions of thirdparty wheels used in deployments.

Software Engineer September 2014 - November 2015
- Developed backend services and REST APIs to support business functions.
- Stadardized development environments using Vagrant and Docker.

Children's Hospital of Philadelphia Philadelphia, PA
`Python, Django, MySQL, Vagrant, Puppet`

Programmer/Analyst March 2010 - August 2013
- Developed the 'Data Almanac', a Python web application to collect and display meta-data and relevant information for questions on research forms.
- Developed plugins to support a national, longitudinal data collection project.
- Built a parser in Python using PLY to extract relevant information from Ambulatory Notes.
- Constructed a machine learning study to correlate juvenile Auditory Brainstem Response test results to Audiometric test results.

Analytical Graphics Exton, PA
Programmer September 2008 - March 2009
- Implemented the adapter design pattern to wrap existing COM libraries using C++/CLI.
- Implemented examples for the tutorial.
- Wrote test suites to ensure functionality of the libraries.

Drexel University Philadelphia, PA
Computer Lab Assistant April 2008 - September 2008, June 2009 - March 2010
- Maintained the computer lab, fixed broken computer equipment and assisted students with computer related problems.

CIGNA Philadelphia, PA
Infrastructure Engineer September 2007 - March 2008
- Built test environments to meet customer specifications.
- Responsible for daily backup of servers, and fixed problems that arose with servers and other lab equipment.

Selected Projects

ShopRunner Resources - Python Library (Closed Source)
ShopRunner Resources was created to maintain and securely store passwords and sensitive information across different environments. ShopRunner Resources is both Python 2.7 and Python 3 compatible. It utilizes Amazon's DynamoDB as the datastore and Key Management System (KMS) to encrypt the sensitive information. It is capable of detecting the current environment, such as staging or production, through environment varaiables, reading a file or directly setting it.

MedTrack - Mobile application (Closed Source)
MedTrack is a mobile application built using Apache Cordova and AngularJS with a Django backend. It allows users to track all of their medical tasks that are assigned to them by their doctors. Users are also able to report any problems they have completing their assigned tasks. Doctors can then view the corresponding data for their patients.

Data Almanac - Python web application (Closed Source)
The Data Almanac was created to record standards, medical codes and definitions related to questions for a national longitudinal data collective project. It allows for versioning of the data, which allows researchers to retroactively view the context under which the data was collected. The Data Almanac also tracked which questions each site was collecting to assess where data sharing could take place. The Data Almanac integrated with REDCap, allowing data collectors to view relevant data at the time of data entry.

Trickle - Android application `www.github.com/wraziens/Trickle`
Trickle is an Android application that was developed in conjunction with Gannett Health Services at Cornell University. The application allows users to track their drinking habits and reflect on their patterns. The application is currently deployed in the Google play store.

Firewall - C program `www.github.com/wraziens/Firewall`
A simple stateful firewall implementation in C. It can run with pcap files or from specified live interfaces.

REDCap PDF Plugin - Python application `www.github.com/cbmi/redcap-pdf-plugin`
A REDCap (`www.project-redcap.org`) plugin that allows users to customize the printed forms. It allows users to specify which questions to print on forms based on branching logic or individual specification. It also allows for a condensed printing format compared to REDCap's native form printing.

Notable Open Source Contributions

PyMySQL `https://github.com/PyMySQL/PyMySQL/pull/279`
Implemented the LOAD LOCAL INFILE command for the PyMySQL library.

Publications and Presentations

[1] J. W. Pennington, B. Ruth, M. J. Italia, J. Miller, S. Wrazien, J. G. Loutrel, E. B. Crenshaw, and P. S. White, "Harvest: an open platform for developing web-based biomedical data discovery and reporting applications," JAMIA, 2013

[2] A. M. Brower, B. Bowdish, M. Porter, J. Pennington, S. Wrazien, J. Loutrel, P. S. White, and M. S. Watson, "Translational research in newborn screening: Development of informatics tools to support longitudinal research and accelerate transformations in clinical practice," American Society of Human Genetics, 2012

[3] M. Brennan, S. Wrazien, and R. Greenstadt, "Learning to extract quality discourse in online communities," WikiAI, 2010

[4] M. Brennan, S. Wrazien, and R. Greenstadt, "Using machine learning to augment collaborative filtering of community discussions," AAMAS, 2010. Extended Abstract