**David Mautz**  
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**PROFESSIONAL EXPERIENCE**

**Senior Data Engineer**

**U.S. Treasury - Office of Financial Research** | Washington, DC/Remote | *July 2016 – Present*

* Developed ETL code for over 25 datasets, totaling multiple terabytes in size, run on a recurring basis using **PySpark, Python, Ruby, EMR, Hive, Trino, S3, Parquet, SQL**.
* Coded data fetchers in **Ruby** to ingest data through **SFTP**, **SSL**, **S3**, **web scraping**, **Connect Direct** and other methods from various vendor solutions.
* Designed and implemented an end-to-end data collection system used by 40 financial institutions to submit daily financial transaction files. The infrastructure and code included **AWS drop zones**, **IAM roles**, **S3** buckets, **Lambda** validity checker, ingest, ETL, data validity and quality checks, and an acceptance workflow used by Data Scientists automated in **Rundeck**, coded in **Python**.
* Coded and implemented an automated entity resolution workflow in **Python**, **PySpark**, and **Rundeck** for Money Market Fund Issuers and their parent organizations.
* Automated scripts, data workflows, and task management through **Rundeck** to optimize efficiency for Researchers and Data Scientists.

**Software Engineer**

**U.S. Treasury - Office of Financial Research** | Washington, DC | *April 2013 – July 2016*

* Built the **OFR Data Catalog**, utilizing **Ruby on Rails, Bootstrap, jQuery, Blacklight, and Solr**, providing Researchers and Data Scientists metadata and request workflows for all data collections at OFR.
* Developed multiple small **Ruby on Rails** apps for **budgeting**, **procurement**, **asset management**, and **workflow processes**.
* Developed of the **OFR Personal Identity Verification (PIV)** data synchronization systemin **Ruby on Rails**, automating **Active Directory and** **Exchange** account management, syncing with HR systems. Later converted the solution to a **ServiceNow** application.
* Configured **full-stack environments** including **Ruby on Rails**, **Nginx, Apache, Postgres, EC2, Redhat Linux**, and **COTS** products such as **Rundeck**.
* Led Agile **Scrum** development, collaborating with analysts and testers to define requirements in **JIRA**.

**IT Specialist**

**U.S. Treasury - Office of the CIO** | Washington, DC | *September 2010 – April 2013*

* Administered **SharePoint 2010** across 16 offices, developing custom widgets and training users.
* Managed **BMC Remedy** ticketing, incident, asset, and change management systems.
* Developed and automated **PIV data synchronization** for employee identity management using **IBM Tivoli Identity Manager**.

**Lead Developer**

**ACS Creative** | Arlington, VA | *September 2009 – September 2010*

* Led **WordPress** administration, custom theme development, and plugin customization.
* Translated Photoshop designs into scalable WordPress themes for 11 web designers.
* Managed **50+ client websites** on **Rackspace Cloud**, implementing DevOps best practices.
* Standardized version control, backup policies, and incremental development methodologies.

**EDUCATION**

**Louisiana State University** | Baton Rouge, LA

* **MBA, Finance** – May 2009
* **B.S., General Studies (Business, Economics, Communication Studies)** – December 2006

**TECHNICAL SKILLS**

* **Programming:** Python, Ruby, JavaScript, Node.js, React, Typescript, FastAPI, AI/ML, Solidity, Smart Contracts, Prompt Engineering
* **DevOps & Cloud:** Git, AWS (S3, EMR, EC2, Lambda), Rundeck, RedHat Linux, Apache, Nginx, ServiceNow Studio, Atlassian Bamboo
* **Data & Automation:** PySpark, Hive, Trino, Parquet, EMR, S3, ETL Pipelines, SQL, Postgres, Supabase, AI Agents
* **Project Management:** Agile, Scrum, JIRA, Certified Scrum Master (2016)
* **Other:** Tableau Server, Highcharts, Sharepoint, LDAP

**LEADERSHIP, ENTREPRENEURSHIP & PROJECTS**

* **President, HOA Board of Directors**, 1300 Mass Owner’s Coop Inc. (*2016-2019*)
* **Founder**, Rock Paper Books – Republished classic books with modern cover art (*2014-2018*)
* **Communications Chair,** LSU MBA Association *(2008-2009)*
* **AI Agent Platform** - Comprehensive framework for building AI agents with multi-provider support  
  <https://github.com/dmautz1/ai-agent-platform>
* **Regular** – Daily task tracking app with recurrence and programs to subscribe to  
  <https://stayregular.io>
* See more at [dmautz.com](https://dmautz.com/)