DAVID RAMEAU

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EDUCATION

New York University, College of Arts and Sciences, New York, NY || *2018*
*BA in **Mathematics** (minor: Computer Science, French)*
Apollo GraphQL Developer Certification - Associate

WORK EXPERIENCE

Consultant, Software Engineering • Slalom Consulting || *July 2021 - Present*

- Developed, as a part of a team, a suite of front-end web applications and new react and MUI based design system for 6 websites of a regional automotive conglomerate. Sites were built with react (Gatsby.js), TypeScript, and Contentful CMS. Mocking and prototyping done in storybook.js, nx, and Figma.
- Provided development support for the creation of multiple net-new features, the resolution of ~50 critical production-level bugs, and the site-wide migration to Contentful CMS of a REACT/next.js front-end site hosted on AWS over the course of a 6 month engagement. Optimized site performance according to core web vitals performance test results -- reduced Largest Contentful Paint and Cumulative Layout Shift to industry standards. Notably, the team efforts to improve the site doubled lead generation for >300 client franchisees.
- Modularized python repository and created a CI/CD pipeline for a client's data science team to store functions and classes written for theme park refreshment pricing models. This repository standardized testing (unittest), code standards (black, pylint), and deployment for a team of +10 scientists, and statisticians. Written with python, bashscript, git/github actions.
- Utilized the i18n and i18next libraries to localize four web applications written in React, Next.js, Backbone.js, and TypeScript. Over a 3 month engagement, we fully localized a client's web applications to Spanish, French, and German language users.
- 2022 lead of Slalom's Black and African American ERG; 2022 /dev/color A* Facilitator

Associate Consultant, Data & Analytics • Slalom Consulting || *Nov 2019 - July 2021*

- Architected test cases and wrote a suite of automated regression, functional, and unit tests for critical Tableau reports in JavaScript, leveraging the Tableau JavaScript API. This in-house tool dramatically reduced (~50%) time spent testing and reviewing dashboards and allowed a server migration of 250+ dashboards to be completed and validated in record time.
- Provided development and SQL server administration support to the reporting team of public sector client:
  - Documented, troubleshot, and wrote stored procedures and views.
  - Architected and implemented the normalization and star schema to selected databases.
  - Lead, as a part of the Slalom transformational consulting effort, the creation an automated QA process for the client's Tableau dashboards absent dedicated third-party software like kinesis-ci. My work included:
    * Writing Python scripts to facilitate report process. Scripts include the **Reporting to git Pipeline.** Also, a Tableau/SSRS PDF Mass Downloader and Merge Service, which generates and merges PDF versions of Tableau and SSRS reports. This script uses multi-threading and Selenium to generate, download, and merge large numbers of pdfs concurrently.
- Built a Tableau to Snowflake Accelerator and PoC. Prospective clients can use this demo to source Snowflake-ready data from S3 and pip it into a prebuilt dashboard. The demo could reduce start-up time for clients new to the Snowflake.
- Built a demo ETL pipeline in AWS for a prospective short-term engagement. CloudWatch triggers Lambda functions to pull data from a web API into S3 bucket, where data is processed by Spark cluster on EC2.

NOTABLE SOLO WORK

C2PA Accelerator:
Built a company-wide PoC and accelerator that leverages the Coalition for Content Provenance and Authenticity (C2PA) public rust SDK to write, read, and authenticate provenance information for media content according to their standards. Developed base components for validating media provenance in React. Developed a custom company-wide media certification signature CLI in Rust.

Reporting Regression Tester:
Delivered and maintained a web application that performs QA tests on reports published to Tableau Server. This webapp leverages the Tableau Server JavaScript API to prevent publishing unintended changes to critical reports. Given the links to two reports, this app returns detected differences in data, objects, and filtering. Written in JavaScript, HTML, and CSS.

Reporting to git Pipeline:
Delivered a python script that loads daily snapshots of report content from client Tableau Server API to a remote git repository, where other python scripts parse this report data. We used this data to create a metadata report for the tableau server, which detailed activity more granularly than was possible with the tableau metadata API. Script uses caching (with python pickle files) and multi-threading to dramatically improve runtime performance.

TECHNICAL SKILLS

Development: TypeScript (react.js, Gatsby.js, next.js) | Contentful CMS and GraphQL| Storybook | Python | bash | apache | AWS | rust | C | Java | OOP | TDD
Data: Snowflake | SQL Server Management Studio | Tableau, Power BI | Alteryx | SSRS
Misc: Agile | Scrum | JIRA | vim, vimscript | Juggling

LANGUAGES

English
French
Haitian Creole