DAVID RAMEAU
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ABOUT

David is a front-end software engineering consultant with over 4 years of industry experience. His background runs the gamut of front-end architecture, design, and development, to site optimization, to design systems, to data analytics visualization and information design.

EDUCATION

New York University, *2018*
Bachelor of Arts: Mathematics

Apollo GraphQL Certified Developer, Associate

WORK EXPERIENCE

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

- Developed, as a part of a team, a suite of 6 **front-end web applications** and new **react** and **MUI** based design system for a regional automotive conglomerate. Sites were built with react **(Gatsby.js)**, **TypeScript**, and **Contentful CMS (GraphQL API)**. Mocking and prototyping done in **storybook.js**, and **Figma**.
- Created multiple net-new features and user flows, resolved ~50 critical production-level bugs, and orchestrated site-wide migration to **Contentful CMS** of a react (**Next.js**) front-end hosted on **AWS** over the course of a 6-month engagement at an auto-repair company. Optimized site performance according to **core web vitals** performance test results-- reduced Largest Contentful Paint and Cumulative Layout Shift to industry standards. Resolved issues in middleware written in **node.js**. Notably, my team's efforts to improve the site doubled lead generation from baseline for over 300 of the client's franchisees.
- Utilized the **i18next** library 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 for Spanish, French, and German language users.
- Built a PoC and accelerator that leverages the Coalition for Content Provenance and Authenticity (C2PA) **rust** SDK to write, read, and authenticate provenance information for media content displayed on front-end websites across the internet. Front-end component of PoC built in **React.**
- Developed a **distributed machine learning model generator** and **CI/CD pipeline** for hospitality client. Utilized spark to distribute load and improve model generation, comparison, and registration time by 60%-150% (depending on cluster availability). Generator trains and determines the best fit model from a variety of statistical algorithms (DT, xgboost, lightGBM, etc) to price tens of thousands of units of merchandise. Created a dev pipeline to standardize unit and integration testing, performance monitoring, code standards, and deployment for a repository housing ml code across a team of +20 scientists and statisticians. Used **python, scikit, pyspark, bashscript, git**, and **github actions.**

Associate Consultant • Slalom Consulting || *Nov 2019 - July 2021*

- Created 20+ analytics dashboards in **Tableau** for public sector client in the financial services industry. Architected a suite of automated regression, functional, and unit tests for critical Tableau reports in **JavaScript**. These test cases leveraged an in-house tool, which I proposed, architected, and built, to dramatically reduce (>50%) time spent testing and reviewing dashboards. Using this tool allowed the team to perform and validate several server migrations of over 250 dashboards in record time.
- Provided engineering and **SQL Server** admin support to the reporting team of a high-profile public sector client:
  - Wrote Python scripts to facilitate reporting process including a Tableau/SSRS PDF Mass Downloader and Merge Service, which used multi-threading and Selenium to generate, download, and merge large numbers of pdfs concurrently.
  - **Documented**, troubleshot, and wrote SQL Server stored procedures and views. Implemented the normalization and star schema for selected databases.
  - 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 PROJECTS

Bed-Stuy Clothes Swap Website | Github: dr1793/bscs_template_site | Production Site: bedstuyclothesswap.com:
Tools: **TypeScript, Next 13, Contentful CMS, Apollo GraphQL, Tailwind CSS, Flask**
Create and maintain business site built for a private client. Site uses a mix of server and client side rendering, powered by React Server Components in Next 13.

Reporting Regression Tester | Github Demo: dr1793/tableau | Live Demo: radeleau.dev/tableau:
Tools: **Vanilla JavaScript, Tableau JavaScript API, Vue.js, Bulma CSS**
Delivered and maintained a web application that performs regression tests on reports published to Tableau Server. This webapp leverages the Tableau Server JavaScript API and can be used to facilitate error-free deployments in a ci/cd process. Given the locations of differently staged reports, this app returns detected differences in data, objects, and

TECHNICAL SKILLS

Dev: JavaScript (express, node) | TypeScript (react.js, gatsby.js, next.js) | Contentful CMS | GraphQL | Python (Flask, Django) | bash | AWS (trained in Bedrock for Gen AI) | postman | Java (Spring, selenium)
Data: MTableau | Power BI | PostgreSQL, MySQL, SSMS | Databricks | Snowflake | Alteryx
Misc: Agile | Scrum | JIRA | Digital Ocean | vim, vimscript | juggling | chess | poetry

LANGUAGES

English
French