JACOB PATTERSON

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https://jacobpa.com · https://github.com/jacobpa

SKILLS

Programming Languages	Java, Javascript, Go, Python, Ruby, Bash
Frameworks	Spring Boot, React, Vue.js, Svelte, Ruby on Rails
Devops and Monitoring	Datadog, Splunk, Elasticsearch/Kibana, Jenkins, TravisCI, Github Actions
Systems and Utilities	Git, Docker, Linux

EXPERIENCE

J.P. Morgan Chase — *Columbus, OH*

Lead Software Developer — Jan 2021 – Present

- Created a CLI utility in Bash and Go to distill a manual 10-step build process for local environments to a single command
- Partnered with data provider teams to redesign a data ingest process, reducing a batch process of hundreds of web requests to two, and ingest time by 80%
- Refactored content storage in accordance with our CMS' best practices, reducing processing time by 75%
- Contributed to a Spring Boot microservice, serving as MQ consumer to integrate data from external partners with high resiliency, handling hundreds of messages daily
- Maintained a React frontend to enable highly customized interface for custom data storage of tens of thousands of keys in our CMS
- Conducted regular code reviews for a team of five engineers, and broader on a monthly cadence with stakeholder teams
- Collaborated with business to digest requirements into specific and completable tasks for developers

L Brands — *Columbus, OH*

Junior Software Developer — Jan 2020 – Jan 2021

- Integrated big data sources from MapR using Apache Hive with Adobe Analytics
- Administered and supported software suites hosted on-premises, including SAS, HCL Unica, and Jupyter Notebook
- Authored behavior-driven UI and REST API test automation scripts utilizing Selenium webdriver and Ruby HTTP libraries
- Extended test framework to send suite execution results for hundreds of tests to Elasticsearch for realtime analysis

Software Developer in Test Intern — May 2019 – Dec 2019

- Authored behavior-driven Java test suites for web and mobile utilizing Cucumber, Selenium, and Appium
- Refactored in-house automation framework to deduplicate and centrally store hundreds of element selectors for use with Selenium
- Utilizing the ELK stack, maintained observability and monitoring dashboards providing realtime insight into test suite execution for hundreds of tests across Web and Mobile

PROJECTS

FCICT | *Javascript, Svelte, Chart.js, SQLite, Docker* — https://fcict.jacobpa.com

Franklin County Inmate Population and COVID-19 Case Tracker, a lightweight PWA to compare Franklin County Jail population against total COVID-19 cases.

- Containerized application for ease of deployment and distribution with Docker
- Created Node.js library to scrape and parse data from official data sources
- Authored lightweight REST API using Polka to serve and scrape data
- Utilized Google Lighthouse to optimize page performance and accessibility

Speaq-AI | *Javascript, React, Kepler.gl, Python, Django, IBM Watson API* — https://github.com/speaq-ai/react-ui

University Capstone project, an interactive, personal-assistant based spatiotemporal analysis tool.

- With teammates, wrote SPA wrapper around Kepler.gl using React and Redux
- Wrote end-to-end frontend tests using Jest and Enzyme
- Contributed to Django based REST API, serving as a middle layer between our frontend and IBM Watson
- Leveraged IBM Watson Assistant, Text-to-Speech, and Speech-to-Text for natural-language interactions

EDUCATION

The Ohio State University | *Columbus, OH* — Dec 2019
BS Computer and Information Science