

SEAN MCCLURE

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EXPERIENCE

Software Engineer

Boston Globe Media Partners

June 2023 - Current

Boston, MA

- Led development of a mission-critical elections data API, collaborating with newsroom and development teams to support up to 200k requests per minute during peak traffic.
- Engineered a centralized data scraping framework in **Python** and Jenkins, reducing development and deployment time by 60%.
- Developed a full-stack web app enabling journalists to efficiently search and upload to the company's data repository using **ElasticSearch**, **FastAPI**, and **NextJS**, enhancing company-wide data accessibility.

Software Engineer, Data Pipeline Engineer

Act Now Coalition (CovidActNow.org | TheActNowProject.org)

Full-time: Dec 2020 - February 2023

Contract: Feb 2023 - Current

- Owned and maintained COVID data pipeline and API responsible for \$800k+ annual revenue and 1M+ monthly website visitors.
- Built and maintained scalable, serverless APIs in Node.js and Python using **AWS Lambda** on the edge, **Cloudfront**, and **S3**.
- Optimized performance and costs of data pipeline, reducing runtime by > 40% and costs by > 50%.

Data Fellow

Brynne Kennedy for Congress

Jul 2020 - Nov 2020

Remote

- Created end-to-end systems for pulling, cleaning, and analyzing volunteer staffing data in Python.

PROJECTS

Jedwal | Micro-SaaS platform to turn Google Drive into a simple, headless CMS jedwal.co

- Deployed IAC to AWS via CloudFormation templates using ECS (Fargate), Route53, ALB, and Internet Gateway.
- Implemented scalable REST API backend using FastAPI and frontend in NextJS/React with Tailwind.

Google Open Source | Drive Picker Web Component github.com/googleworkspace/drive-picker-element

- Contributed a feature to Google's official Drive Picker Web Component, enabling developers to filter and display specific files to improve UX and developer control.

Relaweather.io | A tool to check the weather compared to yesterday relaweather.io

- Built a responsive web app in NextJS following Material design principles.

SKILLS

Technical Skills

Python, TypeScript, JavaScript, SQL, Golang, PHP, Java, HTML, CSS

Frameworks

Pandas, FastAPI, React/Next.js, Flask, Tailwind, Airflow, Express.js, Agile Development

Tools

AWS (CDK, ECS, SAM, CloudFormation), Docker, Github Actions/CI-CD

EDUCATION

Bachelor of Computer Science, Wheaton College (MA)

2021

Relevant Coursework: Algorithms, Data Structures, Linear Algebra, Computer Organization, Probability, Statistics

Minors in Statistics, Economics

FOR FUN

- Baseball, Code for Boston, Muay Thai, urbanism/development, occasional bouldering and hiking.