Sam Matthews

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I'm a geographer turned software engineer with 6+ years of experience building and maintaining HTTP infrastructure. Strong experience in API design, build systems, and performance analysis. I lead small teams of engineers focused on delivering results quickly and building for long-term maintenance. More at **mapsam.com**.

Experience

Mapbox, Senior Software Engineer   2016 - Present (Seattle, WA)
- Build and maintain low-latency HTTP infrastructure serving billions of requests per day across multiple redundant global regions.
- Lead a team of 3+ engineers to migrate our primary map database from NoSQL to SQL, design the schema, and build microservices to support common database queries.
- Design and maintain geographic data processing pipelines using Spark infrastructure, including the billing tooling for charging customers based on usage.
- Report service health to the organization by researching, writing, and updating SLAs (service license agreement) for each of our products.
- Manage on-call rotation, infrastructure, and playbook for responding and mitigating incidents.
- Write and update onboarding materials for new hires intended to teach them about geographic data concepts, mapping technologies, and the Mapbox platform.

Code for America, Fellow   2015 - 2016 (San Francisco, CA)
- 1-year fellowship with the city of Richmond, VA's Department of Health, prototyping tooling for health clinics to effectively share health data across locations.
- Built the Federal Poverty Level API, which distributes federal annual income requirements to any requesting application.

Creative Media Alliance, Web Developer   2013 - 2015 (Seattle, WA)
- Met with clients to understand how to best represent their brand online.
- Designed websites and set up CMS infrastructure for teams to add and modify content on their own.
- Built custom javascript and PHP plugins for WordPress.

Education

University of Wisconsin, Madison   2007 - 2012
BS, Conservation Biology
BS, Environmental Geography
Certificate, Geographic Information Systems

Skills

- **Languages**: Node.js, Javascript, Python, C++, Bash/Shell
- **Providers**: AWS (EC2, ECS, S3, etc.), Heroku, Vercel
- **Databases**: MySQL, Postgres, RDS, SQLite, MongoDB, DynamoDB, Redis, Memcached
- **Tools**: Docker, Make, cURL, git, Node Gyp, jq, GitHub, Pagerduty, TravisCI