Sam Matthews

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I'm a software engineer with 8+ years of experience building and maintaining HTTP infrastructure, high performance Node.js APIs, and Python data pipelines. I build tools to help my teammates be more productive, improve build systems, and bring a keen focus on service observability and uptime. I've spent the last 3 years as a tech lead architecting and implementing products for customers to make beautiful maps. More at **mapsam.com**.

EXPERIENCE

Mapbox, *Senior Software Engineer*   2016 – Present (Seattle, WA)
- Build and maintain low-latency Node.js HTTP APIs publicly serving billions of requests per day across multiple redundant global regions.
- Designed the Mapbox Tiling Service and API, a spatial data pipeline built with Python & Spark for creating maps at scale, including the public SDK & CLI, and internal billing infrastructure for tracking customer usage and cost.
- Lead a team of 3+ engineers to migrate our primary database from NoSQL to SQL and build microservices to support common operations, resulting in greater stability to our platform and clearer understanding of database contents.
- Define uptime SLAs for our public products and report on their health weekly. Manage on-call rotation and playbook for responding and mitigating incidents.
- Write and update onboarding materials for new hires to learn about geographic data concepts, mapping technologies, and the Mapbox platform, as well as author and contribute to open source specifications like Vector Tiles and TileJSON.

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 and built custom Wordpress in PHP and JavaScript for customers to add and modify content on their own.

EDUCATION

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

SKILLS

- **Languages**: Node.js, Javascript, Python, C++, Bash/Shell
- **Providers**: AWS, Heroku, Vercel, Github Pages
- **Databases**: DynamoDB, MySQL, Postgres, RDS, SQLite, MongoDB, Redis, Memcached
- **Tools**: Docker, git, Make, cURL, Airflow, jq, GitHub, Pagerduty, TravisCI