

Richard Stoneback

Full Stack Software Engineer

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WORK EXPERIENCE

Sr Software Engineer / Team Lead, Cox Automotive - 2019 to present - Burlington, VT

- Developed Kafka Streams applications for collection and transformation of automotive website analytics data, sent by thousands of websites including Autotrader and KBB.
- Developed a GraphQL API for url shortening, as well as an application to handle the lookup/redirect of the url, and to gather key consumer information. Handling around 300,000 requests per minute, using AWS Lambda, API Gateway, Dynamo, and more.
- Developed serverless ETL pipelines to enhance and combine massive datasets, using AWS Glue, Lambda, ECS, SNS, SQS, S3, Dynamo, Aurora, and Step Functions.
- As Team Lead, worked with the Product Owner to groom features, pushed back on requirements that needed more clarity, worked with Architects and Principals to bring new ideas and technologies into sight, and made sure the team understood the work and priorities.

Staff Software Engineer, MicroStrain - 2008 to 2019 - Williston, VT

- Lead developer on [MSCL](#), a library used to communicate with MicroStrain's wireless and wired sensors, written in C++ with Python and C# interfaces. Directly supported customers using the library to develop their own software.
- Product owner and full-stack developer on [SensorConnect](#), the main PC software for all of MicroStrain's sensors. C++ backend, with HTML/JavaScript/WebGL frontend.
- Designed and developed sensorcloud.com.

EDUCATION

B.S. in Game Programming, Champlain College - 2010 - Burlington, VT

TECHNICAL SKILLS / EXPERIENCE

- Scala, Java, C++, C#, Python
- TypeScript, JavaScript, React
- Kafka, Kubernetes, Docker
- Terraform, CDK, Github Actions
- New Relic, PagerDuty
- SNS, SQS, S3
- Lambda, Glue, ECS, Fargate
- DynamoDB, Aurora PostgreSQL, Snowflake
- API Gateway, EC2, IAM
- Secrets Manager, Cloudwatch