

MAX ERENBURG

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Website: <https://maxerenberg.github.io>

SKILLS

- Python (including pandas, numpy, matplotlib)
- C, C++
- Node (including Express.js and WebSockets)
- HTML, CSS, JavaScript, PHP
- SQL databases including SQL Server, DB2, MySQL, Postgres
- NoSQL databases including Elasticsearch, DynamoDB, Redis
- Microservice tools including Docker, Kubernetes, Apache Kafka
- Experience working with cloud infrastructure services on AWS and GCP

EXPERIENCE

Software Developer | eSentire Inc.

JAN. 2019 – APR. 2019

- Assisted in the **migration** of an on-premise data pipeline to **AWS**, which significantly reduced operation and maintenance costs
- Wrote **serverless functions** in AWS to periodically retrieve event data from endpoint devices and whitelist them
- Enabled communication between these functions using **asynchronous message streaming** (Amazon Kinesis) and caching for large payloads (Redis)

Research and Analysis Student | Ontario Securities Commission

MAY 2018 – AUG. 2018

- Used **regular expressions** in Python to parse through data fields queried through SQL
- Wrote a program to identify individuals using **sequence matching**
- Implemented a **graph-based** approach to group entities into **clusters**

HACKATHONS AND SIDE PROJECTS

Hack The Valley III, Feb. 2019

- Created a service where an IoT device would periodically take pictures of a location and display the population density on a website
- Created a Kubernetes cluster on GCP to run Dockerized microservices
- Used TensorFlow and OpenCV to count the number of people in a photo

EDUCATION

Candidate for Bachelor of Computer Science | University of Waterloo

SEP. 2017 – CURRENT

- Completed: Calculus I and II, Algorithm Design, Object-Oriented Programming