Samson Stannus

Montreal, QC, Canada ● US and Canadian Citizen

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WORK EXPERIENCE

Machine Learning Software Developer I   Sep '19 - Current
Borealis AI, Engineering Team

- Rebuilt ETL pipeline using Airflow to dynamically scale out a Spark cluster saving 96% of monthly costs over previous implementation.

Software Developer I   Mar '18 - Sep '19
Expedia Group, Geography Team

- Collaborated with geographers and data scientists to import 100,000+ geographic entities to cover 99% of destination searches reported by Google.
- Developed a computer vision application to generate geographical boundaries from images.
- Created UI to edit geometry which enabled geographers to fix 500+ invalid geo entities.

Associate Software Developer   Jan '17 - Mar '18
Expedia Group, Content Systems Team/Geography Team

- Built application to import geo-datasets in bulk and display dataset statistics.
- Rebuilt RESTful Image processing web services to utilize a Kafka streaming architecture which reduced the latency of read and update requests by 88%.

Software Developer Intern   Jan '16 - Sep '16
Expedia Group, Content Systems Team

- Migrated image processing pipeline on to AWS infrastructure reducing costs by 95%.
- Built a custom log-formatter to aid in issue investigation and report creation.

EDUCATION

McGill University   Sep '12 - Dec '16
Bachelor of Science, Computer Science

- Organized the 2016 annual McGill hackathon (McHacks) for 600+ hackers.
- Represented McGill at the 2016 Ubisoft Game Lab Competition.
- Completed advanced courses in Machine Learning and Computer Graphics.

PROJECTS AND ACCOLADES

Workshop presenter for Expedia Group xTech Conference 2018
Developed workshop on creating interactive geo-data visualizations using Mapbox and React.

Placed 2nd overall (1st in Montreal) in Expedia Global Hackathon 5.0
Trained a generative adversarial network based on the **SRGAN paper by Twitter** to enhance the resolution of hotel images.

Geo-Samesies-Net
A deep learning approach to geography similarity based on **Toponym Matching paper**.

gifflr.net
A Text to GIF converter which finds semi-relevant GIF images using the python Tumblr API.

SKILLS

Programming	**Software and Frameworks**
Python, Scala, Java, JavaScript	Git, Unix, Scalatra, Spring Boot, Splunk, Keras, Pandas, Scikit-Image, Postgres/PostGIS, AWS, React, Mapbox-GL, Airflow, LaTeX