

Stephen Ingram

Staff Software Engineer / Data Analyst

Coho Data

github.com/sfingram

Asheville, NC USA

stephenfroweingram@gmail.com

828 712 9390

sfingram.net

WORK EXPERIENCE

Senior Software Engineer, Coho Data - *Apr/2013 - present* - Vancouver, BC

- Developed Onstream, a customer analytics and diagnostics service
 - Containerized microservice architecture runs locally and in AWS
 - Designed analytics dashboard for browsing customer perf data
- Created “Counter Stack” modeling data structure and distributed database.
 - Enables quick analysis of high volumes of trace data

Developer/Analyst, Twin Beach Analytics - *May/2008 - June/2012* - Vancouver, BC

- Designed and implemented algorithms for trading index futures.
- Developed in-house, high-volume trading simulation and analysis software.

Previous Experiences:

- Development contract for BC Cancer Agency for 6 months in 2007-2008.
- Senior Developer position at Emory University Library in 2004-2005

RESEARCH LAB EXPERIENCE

Imager Lab, University of British Columbia - *Jun/2006 - Apr/2013* - Vancouver, BC

- Designed and implemented prototype for investigative journalism tool [Overview](#).
- Developed algorithms to visualize clusters of millions of documents ([paper](#))
- Wrote GPU code to improve speed and quality of energy-based data layout.

GVU, Georgia Tech - *Nov/2013 - Jan/2015* - Denver, CO

- Researched and implemented textured geometry synthesis ([paper](#))

SIDE PROJECTS

Color Thief: iOS app for fast color transfer between photos using the GPU ([link](#)).

EDUCATION

2013 Ph.D. in Computer Science, University of British Columbia

→ Dissertation: [Practical Considerations for Dimensionality Reduction](#).

2007 M.Sc. in Computer Science, University of British Columbia

→ Thesis: [Multi-level Multidimensional Scaling on the GPU](#).

2004 B.Sc. (Honors) in Computer Science, Georgia Tech

→ Specialization in Computer Graphics under [Greg Turk](#).

TECHNICAL SKILLS

Languages & Tools

→ Python, C, Java, Clojure, WebGL, D3, R, Git, Matlab, Numpy, Flask, AWS, Docker

Data Storage and Analysis

→ Pandas, Tidyverse, ggplot2, Elasticsearch, awk, Postgres, InfluxDB, Grafana

NOTABLE PUBLICATIONS

Glimmer: Multilevel MDS on the GPU

→ S Ingram, T Munzner, M Olano, *IEEE Transactions on Visualization and Computer Graphics* 15 (2), 249-261

Characterizing Storage Workloads with Counter Stacks.

→ J Wires, S Ingram, Z Drudi, NJA Harvey, A Warfield, C Data, *OSDI*, 335-349

PATENT

WO2015168262 A3 ([application](#)) Systems, devices and methods for generating locality-indicative data representations of data streams, and compressions thereof