Daniel Lister

Goal

Continue to develop new skills while contributing to well built software with a positive social impact

Experience

- 2018-present Co-founder, CTO, Full Stack Software Developer, Compliance Master.
 Python (Flask, SQLAlchemy, pandas), PostgreSQL, AWS, JavasScript (React)
 - Collaborated with subject matter expert (co-founder) to design a product to allow compliance officers to quickly and easily complete common tasks
 - o Personally designed and implemented as a SaaS product
 - o Handled importing and analysing stock trade and price data, over 50,000 records daily

2016–2018 Back End Software Developer, Canopy Labs.

- Python (Flask, SQLAlchemy), MySQL, AWS, JavasScript (AngularJS)
- o Created back end systems for a data driven marketing and analytics SaaS product
- o Point of contact between development team and data science/machine learning team
- o Increased record ingestion rate from less then 10/second to more then 300/second
- Designed and implemented system used to send over 10,000 scheduled and triggered personalized emails per day
- Secondary team lead, led knowledge sharing sessions, and won first place in company wide hack day

2015–2016 Independent Game Design and Development.

- Python, C#, Unity
- o Designed and developed a custom python game engine for rapid prototyping
- Created many video and board game prototypes

2013–2015 **Lead Software Developer**, *Geomechanica*.

- OpenCL, C++, Python, Qt
- Sole developer for majority of development and testing of Irazu, software for finite discrete element (FDEM) simulation
- Implemented FDEM algorithm on the GPU using OpenCL, reducing the time to run a simulation from days to hours
- o Oversaw and assisted intern development of the Irazu GUI

2009–2010 **Software Developer**, *University of Toronto Computational Biology Lab*.

- o C, OpenMP, Python
- o Developed software for combining short DNA reads into a complete genome
- Implemented as a parallel algorithm using OpenMP achieving a 2-5 times speedup over similar software
- o Administered lab computational resources

2008–2009 **Software Developer**, *University of Toronto Citizen Lab.*

- o Python, Excel
- Developed and used software to analyze and detect internet censorship from data collected around the world

8 Third St. - Toronto ON

☐ (647) 838 8901 • **(**416) 203 1013 • ☐ dan.lister@gmail.com created with LaTeX

Education

2010–2012 Master of Science, University of Toronto.

Specializing in Theory of Distributed Computing

Thesis: A Pedagogical Presentation of the BG-Simulation

Advisors: Sam Toueg and Vassos Hadzilacos

2005–2009 Honours Bachelor of Science, *University of Toronto*, 3.55 GPA, With Distinction.

Double major in Computer Science and Physics with a minor in Mathematics

Technical Skills

Languages Python (Flask, SQLAlchemy), JavaScript (React, Angular), C/C++, OpenCL, C#

Cloud AWS (Lambda, RDS, Batch, Cloudfront, Cloudwatch), Docker

Databases MySQL, PostgreSQL