Daniel Lister

Goal

Continue to develop new technical and leadership skills while contributing to high quality software

Experience

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

2016–2018 **Full Stack Software Developer**, *Canopy Labs*.
- Python (Flask, SQLAlchemy), MySQL, AWS, JavaScript (AngularJS)
- Created back end systems for a data driven marketing and analytics SaaS product
- Point of contact between development team and data science/machine learning team
- 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
- 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
- Oversaw and assisted intern development of the Irazu GUI

2009–2010 **Software Developer**, *University of Toronto Computational Biology Lab*.
- C, OpenMP, Python
- 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
- Administered lab computational resources

2008–2009 **Software Developer**, *University of Toronto Citizen Lab*.
- Python, Excel
- Developed and used software to analyze and detect internet censorship from data collected around the world

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🌐 *www.dlister.ca* • *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