Daniel Lister

Goal

Use my experience and leadership to help a team grow and produce high quality software

Experience

2025   **Senior Full Stack Software Engineer**, *VerticalScope*
- Python (Flask, SQLAlchemy, Vue, MySQL), Javascrip (React)
- Maintianed and developed featrues for www.ratemds.com
- Integrated 3rd party data sources for www.ratemds.com

2024   **Senior Backend Software Engineer**, *PayFare*
- Python (Flask, SQLAlchemy, Vue, MySQL)
- Developed features for gig economy workers to manage high interest savings accounts
- Developed features for customer service agents to resolve e-transfer discrepancies

2023   **Senior Full Stack Software Engineer**, *JG Wentworth*
- Python (Flask, SQLAlchemy, Angular, PostgreSQL)
- Made significant performance improvements to admin dashboard
- Developed and deployed admin dashboard features for loan underwriting operators

2020–2023   **Software Engineering Team Lead**, *PartnerStack*
- Python (Flask, SQLAlchemy), Vue, PostgreSQL
- Led the communications team in charge of email sending, campaign creation, and chat
- Held weekly 1-1 meetings with individual engineers, acting as a mentor and coach
- Performed biyearly performance reviews and career planning for engineers
- Ran Scrum meetings for the team and worked closely with product and design

2019–2020   **Senior Full Stack Software Engineer**, *Opencare*
- Node, React, Sails, Nest, Next, PostgreSQL, AWS
- Implemented integration with invoicing system handling over $100k in monthly revenue
- Led architecture and implementation of web app for specialists to verify dental insurance
- Developed product features for dental marketplace app with over 200k monthly hits

2018–2019   **Co-founder, CTO, Full Stack Software Engineer**, *Compliance Master*
- Python (Flask, SQLAlchemy, pandas), PostgreSQL, AWS, 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 analyzing stock trade and price data, over 50,000 records daily

2016–2018	**Full Stack Software Engineer**, *Canopy Labs*
	○ Python (Flask, SQLAlchemy), MySQL, AWS, 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	**Software Engineer**, *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 Engineer**, *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 Engineer**, *University of Toronto Citizen Lab*
	○ Python, Excel
	○ Developed and used software to analyze and detect internet censorship from data collected around the world

Education

2021	**Managment Training**, *Raw Signal Group*
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/TypeScript (React, Vue, Node, Angular), C#
Cloud	AWS (Lambda, RDS, Batch, Cloudfront, Cloudwatch), Docker
Databases	PostgreSQL, MySQL