Taylor Mitchell

Software Engineer
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Experience

Senior Web Developer - Ideaflow   Toronto ON, August 2022 - Present

- Led successful Product Hunt launch (highest voted product of day), including scaling infrastructure and rapidly delivering an iOS version of our web app with minimal codebase changes in a tight timeframe.
- Ran technical interviews and hiring, created onboarding documentation and mentorship program to quickly ramp up new engineers and grow the engineering team.
- Collaborated with CEO and design lead to translate product vision into intuitive UI/UX solutions, setting technical roadmap and leading frontend implementation with React and MobX
- Built high-performance text editor with real-time suggestions, optimizing client-side performance through custom hooks and state management
- Designed and maintained a graph-based data model supporting real-time sync. Implemented optimistic updates with transactional guarantees across distributed system.
- Improved development process by implementing engineering best practices: automated testing, PR checklists, error reporting, analytics, and AWS monitoring.

Data Engineer - IBM Consulting   Toronto ON, February 2019 - December 2021

- Designed and implemented REST API backend for crisis evacuation web application, working closely with frontend teams to define clear interfaces. Application has since helped evacuate thousands of families.
- Optimized Python ETL pipeline using vectorized operations and performance profiling, achieving 10x throughput improvement and reducing runtime from days to hours.
- Developed fuzzy matching system processing 30M records using Python and Go, delivering accurate results within strict timeline.
- Led production support for $1.3M NLP processing solution on AWS, managing client relationships, bug prioritization, and feature development.
- Built ML model serving infrastructure with REST API supporting inference and retraining, as part of $1.5M manufacturing advisory system.
- Founded and led mentorship program supporting dozens of new data scientists and engineers.

Data Scientist - EMD Serono   Toronto ON, April 2018 - February 2019

- Applied data exploration, visualization, and machine learning models to identify the drivers of churn.
- Translated roughly defined business questions and goals into concrete questions to answer with data.

Mechanical Designer - Consultec Ltd   Toronto ON, May 2015 - December 2017

- Designed industrial processing plant layouts in close collaboration with engineers, managers, and clients.
- Built internal software to automate tasks and provide custom tools for our 3D modeling software.

Technical Skills

- **Full stack web:** TypeScript, React, Express, PostgreSQL, GraphQL, AWS, HTML/CSS
- **Data Engineering:** Python (numpy, pandas), Go, ETL pipeline design, performance optimization
- **Infrastructure:** AWS, CloudWatch, monitoring, logging, automated testing, CI/CD

Education

- **University of Toronto** - B.S. in Mechanical Engineering and Robotics May 2013

Extra Curricular

- **Gymnastics** - Medalist at Canadian Championships and still do it for fun.
- **Personal productivity tools** - I'm working on a suite of personal tooling including a cli for my notes, a cli for my todos, kindle exporter and logging app. These are in a mono-repo I call home.