

# Benjamin Shaw

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## Personal Profile

- Technical leader with a track record of successful delivery and a broad skill set acquired from a diverse background. I enjoy working with people and technology to solve complex problems. Specialized in scaling machine learning by applying software best practices.

## Summary

- 17 years Professional Software Engineer.
- Leadership and team building.
- MLOps/ML Engineering.
- Backend development.
- DevOps/Infrastructure.

## Employment History

**Mar 2022-** Scribd, Remote Canada

**Present** *Senior Manager Machine Learning Platform*

As the senior manager of the Machine Learning Platform I have been responsible for building a team that worked with Machine Learning Teams (Data Science, MLE, Data Engineering) to understand Infrastructure needs and pain points working to develop a platform that standardized the MLOps process and empowered the delivery of Machine Learning models to production at scale whilst achieving the goals of increasing Development Velocity and controlling Technical Debt. The Majority of our problems focussed on recommendations, and I have a large amount of experiencing working with Embedding Based Retrieval solutions. However, we also worked with Model Inference, Feature Store and recently delivering LLM solutions to production.

**Experience:** Project Management, Product Manager, Developing road maps, Team building, Team culture, Recommendations, LLM, Real-time Model Inference, Batch Model Inference, AWS, Embedding based retrieval

**Apr 2021-** Scribd, Remote Canada

**Jan 2022** *Staff Engineer Machine Learning Platform*

Responsible for designing and implementing a self service platform for version controlling Machine Learning models as well as the Continuous Integration and Delivery process for delivering these models to production at scale

**Experience:** Python, Databricks, Deltalake, Jenkins, Recommendations, Realtime Model Inference, Batch Model Inference, AWS, Embedding based retrieval

**Aug 2020-** Dataswift, Remote Canada

**Apr 2021** *Senior Backend Engineer*

Early stage startup, I joined the engineering team during an era of rapid growth and was pivotal in productionizing the system (micro-service data processing) and growing the team. Technical responsibilities included; designing, developing, refactoring of API and back-end systems. Defining standards, testing, setting up development system and technical roadmaps. Non technical included mentoring, creating the software development process and hiring.

**Experience:** Scala, Testing, Functional Programming, Cats, AWS, Dev Ops, Docker, SQL, Postgres

**Oct 2017-  
July 2020** Contracting to Avalanche Canada, Revelstoke British Columbia Canada  
*Project Manager / Senior Backend Engineer*

Developed workflow and data aggregation/visualisation tools for Avalanche Forecasting. In conjunction with internal staff worked from initial brainstorming through requirements gathering, development, testing and deployment. My role as project manager had me working directly with users, planning and coordinating contractors (for front end). My secondary role was as the backend developer where I developed data API's, managed infra and CI/CD.

**Experience:** Scala, Functional Programming, Cats, AWS, Dev Ops, Jenkins, Docker, SQL, Postgres

**Sep 2016 -  
Oct 2017** Amazon, Vancouver British Columbia Canada  
*Software Development Engineer*

Technical Lead developing a data platform service for Machine Learning, Data Analysis and Investigation teams in Anti Money Laundering (Seller Compliance / Suspicious Activity Monitoring).

**Experience:** Java, Scala, AWS, Git, SCRUM, Hiring, Documentation, Dev ops

**Aug 2015 -  
Aug 2016** Amazon, Toronto Ontario Canada  
*Software Development Engineer*

Developed a service to streamline, extraction, processing, access and discovery of big data for scientists and business analysts. The platform is based on-top of Spark and Hadoop and utilises AWS technologies to add discovery of datasets using metadata

**Experience:** Big Data, Java, Scala, Python, Hadoop, Spark, AWS, Git, SCRUM, Hiring, Dev ops

**Mar 2014 -  
Aug 2015** Avalanche Canada, Revelstoke British Columbia Canada  
*Senior Software Developer*

When the CAA (Canadian Avalanche Association) and CAC (Canadian Avalanche Centre) boards decided that they wanted individual organizations we dissolved the existing IT team and split staff between the two. I went with the CAC which was re-branded Avalanche Canada. Part of this re-brand was to develop a new website from the ground up with an extremely limited budget. I worked closely with management to determine the technical direction of the re-branded organisation and was the lead developer of the new website and phone application working with several contractors and contributors to develop a new open source platform and website for Avalanche Information in Canada.

**Experience:** Management, Budgeting, Open Source, Javascript, Node.js, GitHub, Angular.js, REST, AWS, Hiring

**Jun 2012 -  
Mar 2014** Canadian Avalanche Association, Revelstoke British Columbia Canada  
*Senior Software Developer*

Led a team responsible for the maintenance and development of all IT systems for both the Canadian Avalanche Centre and Canadian Avalanche Association. This included Website, phone application, infrastructure, and database as well as managing other IT staff (3 direct reports)

**Experience:** Javascript, AngularJs, Heroku, .Net

**Jun 2007 -** CEA Technologies, Fyshwick Canberra Australia

**Jun 2012** *Embedded Software Engineer*

Responsible for the design, development, testing and documentation of embedded software to perform signal processing and control of radar systems. Software was run on a distributed processing system using of the shelf boards and a Real Time Operating System. For the CEAMOUNT project I was the team leader for the software component.

**Experience:** Radar Systems, C++, Assembly, Real Time Operating Systems, Embedded Development, Signal Processing, Scheduling, Concurrency, Distributed Processing, Qt, Hiring

## Education

**2003-2006** University of Canberra, Australia

*First class Hons BE in Software Engineering*

Honours Thesis - Real-time decision making for an autonomous vehicles, simulated on PS2 hardware.

**Units:** AI, Biometric authentication, Project management, Software development, Database systems, Math, Processor design, Digital circuits, Computer hardware, Machine learning, Games Programming, Operating systems.

## Interests

- Snowboarding
- Rock Climbing
- Mountain Biking
- Linux