

# Benjamin Shaw

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## Personal Profile

Developer with the ability to work hard think outside the box and a track record of delivery.  
Broad array of experience with data being the consistent theme.  
Current interests include Functional Programming, Scala and Linux.

## Summary

- 13 yrs Developing Production Software
- 10 yrs Data Systems
- 7 yrs Project/Technical Lead
- 7 yrs API's
- 5 yrs Scala
- 5 yrs C++
- 18 months Java
- 12 months Python, Node.js
- 12 months Big Data (Spark, Hadoop)

## Employment History

**Augn 2020-** Dataswift UK Cambridge  
**Current**     *Senior Backend Engineer*

Developing greenfield as well as maintenance and refactoring of existing API's in a micro-service data processing architecture for early stage startup. Mentored junior engineers and worked with management in building a successful team and software development process.

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

**Oct 2018-** Contracting to Avalanche Canada, Revelstoke British Columbia Canada  
**July 2020**     *Technical Project Manager / Senior 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 and pipelines as well as dev ops and testing.

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

**Oct 2017 -** Amazon, Vancouver British Columbia Canada  
**Oct 2018**     *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** - Amazon, Toronto Ontario Canada

**Aug 2016** *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** - Avalanche Canada, Revelstoke British Columbia Canada

**Aug 2015** *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** - Canadian Avalanche Association/Centre, Revelstoke British Columbia Canada

**Mar 2014** *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*

Anti-Ship Missile Defence (ASMD) project, CEAFAR and CEAMOUNT systems. Responsible for the design, development, testing and documentation of embedded software to perform the 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

*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