Benjamin Shaw

21st October 1984   https://github.com/benshaw
+1 250 200 0393   benjamin.alexander.shaw@gmail.com

Personal Profile

Software Engineer with the ability to work hard think outside the box and a track record of delivery, developing quality software is my passion.
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

Aug 2020-
Current Dataswift UK Cambridge
Senior Backend Engineer

Developing greenfield as well as maintenance and refactoring of existing API's in a microservice data processing architecture for early stage startup. I joined the team early on during a rapid era of growth and was pivotal in productionizing the system and growing the team including mentoring junior engineers and working with management in building a successful team and software development process.

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

Oct 2017-
July 2020 Contracting to Avalanche Canada, Revelstoke British Columbia Canada
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

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 - 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**