Cole Fichter

Curriculum Vitae

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Summary

The most enjoyable part about my job is that I get to leverage two decades of hard-won experience to help a whole crew of developers improve and deliver the very best software they can muster. I feel like I can truly call myself a "10x developer" now.

Experience

Jan '22-Oct '23 **Engineering Team Lead**, *LawDepot*, Edmonton
I lead a team of talented, dedicated software engineers. Together, we are responsible for the core infrastructure bringing you low cost legal documents. We're also working hard to build the next generation application stack to replace our current technology.

Oct '20-Dec '21 **Principal Engineer**, *Cazeen Resources*, Edmonton
Reporting to the CEO, I was responsible for everything related to the implementation of our SaaS platform. I lead a team to design, implement, deploy, manage, and maintain the ecosystem of tools, code, frameworks, and servers that create our advanced job and applicant matching service. I wore many hats while solving real business problems every day.

Jan '20-Jul '20 **Senior Engineer, Machine Learning**, *Jobber*, Edmonton
Full stack development of analytical and business intelligence features in ruby on rails with postgres, combined with research and experimentation toward building an internal ML platform to power Jobber's online SaaS offering. I used many tools including React, postgres, dynamodb, CI/CD, Heroku, AWS, python, Cube.js, and more.

Jun '18-Dec '19 **Consultant Developer**, *Gov. of AB Education Ministry*, Edmonton
Using angular, typescript, redux, and dynamodb I helped provide highly scalable, always available, online testing services to students in Alberta public schools.

Nov '15-Jun '18 **Consultant Developer**, *Gov. of AB Seniors and Housing Ministry*, Edmonton
On a team of 5, I built and maintained bespoke .NET systems to manage and enable over $30M per month in benefit payments to 150,000 seniors in Alberta.

Oct '14–Nov '15 **Senior Software Developer**, *Mailout.com*, Edmonton
I performed full-stack system architecture and implementation using C#, MVC4, RXJS, Backbone.js, MS SQL, and other technologies. We iterated quickly *without* breaking things by following a disciplined behavior-driven development (BDD) approach.

Feb '13–Oct '14 **Data Scientist**, *Yellow Pencil*, Edmonton
As technical lead, I guided a team to create the prototype that is now OnPoint Suite. Included custom analytics and novel automation algorithms implemented in C#, MVC4, SQL Server, and Erlang. I also mentored and trained other developers.

2009–2013 **Senior Software Developer**, *Mailout Interactive & Inkdit*, Edmonton
I performed statistical analyses, machine learning in Erlang, and software engineering mostly in C# and JavaScript. Applying mathematics and deep technical expertise, I provided value to our customers by solving challenging problems.

2006–2009 **Freelance Software Developer & Technical Consultant**, Edmonton/London
Broad software engineering experience in several industries in Canada and the UK.

2005–2006 **Software Engineer**, *Dreamspace*, London, United Kingdom
I led a team to consistently deliver great web applications on time and within budget.

2004–2005 **Junior Software Developer**, *Mailout Interactive*, Edmonton
My focus was to implement new features and bug fixes under the guidance of a small team of experienced developers.

Education

2009–2014 **BSc Math/Computational Sci. (incomplete)**, *University of Alberta*, Edmonton
Eleven semesters of continuing education in mathematics and statistical sciences.

2000–2002 **Computer Systems Technology Co-op with Honors**, *NAIT*, Edmonton
CST was a 5-semester diploma program in hands-on software development and business skills, including summer co-op work. I graduated with honours.

Programming Languages

As a polyglot programmer I strive to understand the fundamentals of computing science. I've worked in many different languages and I'm always happy to add one more. See my LinkedIn profile for a more thorough list.

Programming	TypeScript, Angular, NGRX, Ruby on Rails, C#, JavaScript	**Scientific**	R, Maple, Latex
NoSQL DB	Dynamodb, MongoDB	**Markup**	JSON, XML, HTML, CSS
Relational DB	MS SQL, SSIS, SSRS	**OS**	Windows, Ubuntu, AWS

Selected skills

SCRUM/sprints, Kanban	Mentoring juniors
Design & document processes	Coding standards
Continuous & discrete math	Algorithm design
Linear & formal algebras	Machine learning
Functional programming	Object-oriented programming
Distributed systems	SQL query tuning
SQL query optimization	Parallel programming
Statistical analysis, probability	Software engineering
Compiler implementation	Project management
Agile, scrum, kanban, lean	Continuous integration
Message queuing systems	OOD, design patterns, SOLID
Technical writing	System analysis and design
Refactoring	Code reviews
Git, Subversion, SourceSafe	Heroku, Amazon AWS
Search & Information retrieval	Automated testing

Professional Certifications

I.S.P. Former Information Systems Professional designation from the Canadian Information Processing Society.

MBCS Former Professional Member of the British Computer Society.

References

I would be glad to provide a list of references upon request. For now, please see the recommendations listed in my LinkedIn profile. There is a link in the header of this document.