

Lucas Tétreault

Strong technical leader. Agile programming enthusiast and lover of learning.

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EXPERIENCE

[AWS](#), Remote — *Senior Software Developer, AWS IAM Identity Center*

NOVEMBER 2022 - CURRENT

Worked across teams in the IAM Identity Center (IdC) and Data Analytics organizations to develop a new feature based on open standards that will empower our largest customers to define granular access across AWS services using the identity provider of their choice. Collaborated with Principal Engineers to deliver a technical strategy for AWS region build automation to fully automate 70 developer days of effort required by one of the IdC teams for every new AWS region that is launched. Championed technical and operational excellence by example as an on-call engineer and through mentoring engineers to own their services end to end and be proactive about reducing technical debt.

[AWS](#), Vancouver, BC — *Software Development Manager, Amazon MQ*

SEPTEMBER 2020 - NOVEMBER 2022

Mentored and managed 18 direct reports and 3 three teams of software developers. Successfully onboarded 10 engineers while working fully remote. Developed the mandate for a new shared platform team, and transitioned that team to a new SDM who I mentored. Contributed to and led design, architecture, process and development discussions related to a distributed platform running a large number of ActiveMQ brokers across multiple data centers. Effectively led a multi-year project for a large new Amazon MQ feature from inception through to private beta which will enable customers to build cross-AWS Region resilient applications on Amazon MQ. Owned the operations of the ActiveMQ service with effective mechanisms such as weekly operations reviews, correction of errors investigations, root causes analysis for customers, and as an on-call escalation manager supporting Amazon MQ, SNS, SQS, MSK, and more messaging and streaming services.

[Vivvo](#), Regina, SK — *Chief Technology Officer*

NOVEMBER 2019 - AUGUST 2020

Responsible for technical leadership and mentoring of 3 development teams, overall technical architecture, and new product innovation. Initiated and led projects to mature the CitizenOne product such as a modernization of the frontend design and technology, standards compliance and certification for SAML and OAuth 2.0 SP/IdP features, migration to Kubernetes to reduce operational burden, and integration with cloud solutions such as Azure CDN, WAF, managed Kubernetes and managed databases to improve scalability, security and uptime. Lead the way by being hands on via foundational work such as the initial Kubernetes migration and an authentication proxy to secure customer webapps. Delivered the most complex and sensitive features such as standards compliant SAML Single Logout feature.

[Vivvo](#), Regina, SK — *Principal Software Developer*

OCTOBER 2017 - NOVEMBER 2019

Led the architecture and development of a new product, Business Connect, which launched with the Government of Saskatchewan in 2018. Developed initial prototypes of the Eeze passwordless authentication mobile wallet, backend service, and integration with Vivvo's core product, Citizen One. Engaged with the

W3C Decentralized Identity and Verifiable Credentials communities including presentations at the Internet Identity Workshop on Decentralized Identity and proposals for standardizing DID-based passwordless authentication. Led important client engagements such as launching Citizen One with eHealth Saskatchewan and proof of concept work with Industry Science and Economic Development Canada. Designed, built and deployed a new custom built authentication service including SMS and TOTP MFA, multifaceted account lockout strategy, and support for migrating accounts from a variety of authentication solutions that is now serving 300k DAU with eHealth Saskatchewan's health portal.

Thoughtworks, Regina, SK — Senior Software Developer

MARCH 2017 - SEPTEMBER 2017

Assigned as a Senior Application Developer for 6 months and worked closely with the client to build, using Node.js/Express/Docker, an e-commerce system. The initial launch was for a specific product offering and had minimal integration to order management systems. Version two included integrating with legacy systems to fully automate order processing. The resulting application is a generic e-commerce system that will be able to support all of their products. All of the delivered micro services are automatically built, tested and deployed to Openshift in Docker containers.

Farm Credit Canada, Regina, SK — Senior Software Developer

JUNE 2014 - MARCH 2017

As a senior developer on an agile scrum team, participated in solution design, project estimation, development and production support. Mentored team members on agile methodology, coding best practices and managing their workload in a sprint. Primarily responsible for SAP development and frequent contributor to Java and Angular codebases.

Lead proof of concept and implementation of SAP HANA sidecar for realtime loan balances calculations. Worked with vendors, operations, finance and IT business analysts to develop a loan balances model that transformed a nightly batch process that ran in 26 shards for up to 4 hours to a real time SAP HANA query that returned up to date loan balances in ~100ms.

Farm Credit Canada, Regina, SK — Software Developer

JUNE 2011 - June 2014

Farm Credit Canada is a Canadian Government Crown Corporation that provides consumer and mortgage loans, and leases to Canadian farmers and agribusiness. I started on the SAP ABAP development team building SOAP/REST services on and extending functionality of SAP CML and CMS. I quickly became familiar with the legacy tech stack, a monolithic Java application with a Swing based UI framework. I helped move FCC to a micro service and micro site architecture using Spring Boot and modern web technologies such as AngularJS and eventually Angular 2+. Led the adoption of best practices such as unit testing and code reviews. Developed supporting tools such as ABAP plugins for FitNesse and Phabricator. Mentored SAP development team on object-oriented development and modern ABAP.

Farm Credit Canada, Regina, SK — Desktop Support Analyst

MAY 2008 - JUNE 2011

As a desk side support analyst, I provided Tier 2 support for all workstations at Farm Credit Canada. I worked closely with vendors and external support services to resolve issues. I was responsible for configuration, distribution and management of software.

EDUCATION

University of Regina, Regina, SK — B.Sc. Combined Computer Science and Mathematics

SEPTEMBER 2005 - DECEMBER 2010