Eric Semeniuc

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Skills
- Languages: Rust, Go, TypeScript
- Web: Actix, Apollo, GraphQL, Nextjs, OAuth2, React, Ruby on Rails, Spring
- ML/System: Docker, Kafka, Kubernetes, PostgreSQL, PyTorch, Redis, Spark, Trino

Professional Experience

Software Engineer at Salesforce   Jun 2020 - Present

Big Data Engineer:
- Scaled data retention ~9x by building optimized ETL pipeline using Kafka + Trino + S3 data lake
- Enabled time-travel rollbacks and fine grained partitioning with Apache Iceberg table format
- Optimized report generation performance ~7x with distributed querying and parallel rendering

Security Engineer:
- Protected backend secrets with Hashicorp Vault for secure key retrieval and rotation
- Implemented Two-Factor AuthN/Z access controls with OpenID Connect

Frontend Engineer:
- Developed & deployed internal on-demand health reports dashboard with Nextjs
- Continuously championed modern frontend (React + TypeScript) to power team UIs

Software Engineer Intern at Salesforce   Jun 2019 - Aug 2019
- Developed full-stack release management portal to track and manage SayonaraDB lifecycle
- Reduced data lookups by 80% by consolidating siloed data into single GraphQL API
- Codified business processes for release staggers and stages into single reference

Software Engineer Intern at Facebook   May 2018 - Aug 2018
- Designed, developed, and pushed full-stack supplier messaging system to production
- Streamlined bid lifecycle by integrating message history and attachments into bids
- Enabled scaling and uptime improvements by eliminating Oracle APEX

Software Engineer Intern at Salesforce   May 2017 - Aug 2017
- Developed server health monitoring service with Spring framework and Refocus UI
- Achieved near real-time reporting (<10 sec) using delta updates and Kafka streaming
- Optimized 99th percentile response times by 50% by contributing fixes to internal tools

Software Engineer at LEAP Learn   Sep 2013 - Aug 2015
- Improved visibility of student progress with custom formative assessment system
- Developed web based secure student ledger for tracking finances with MySQL and PHP
- Optimized instructor grading workflow by developing personalized dashboard for Moodle
- Applied Krashen teaching methodology to Moodle by developing custom activity blocks

Software Engineer at Amigos Travel   Jul 2012 - Sep 2013
- Built flight search and booking back-office on Amadeus Selling Platform
- Designed and deployed PDF invoicing system with PayPal integration

Web Developer at Deals Caddy   Apr 2011 - June 2012
- Implemented algorithm for perpetually decreasing group pricing to incentivize purchases
- Collaborated with contractors to develop group buying e-commerce marketplace

Education
University Of British Columbia - BSc (Hons) Computer Science w/ Dist.   2016 - 2020

Interests: Cycling, snowboarding, motorsport, sunset gazing