Cory Salveson

A seasoned R&D expert, full-stack developer, and systems architect specialized in innovation for human learning.
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Selected Work

Chief Technology Officer: Cumulus Labs   Nov 2022–Present
- Led technology strategy, architecture/solution design, engineering, and launch of Cumulus, an immersive 3D memory-archiving platform for desktop, mobile, and XR headsets, using Typescript (Javascript), WebXR/Three.js, Next.js (React), React Native, Supabase (PostgreSQL), Azure, and AWS.
- Developed a multi-decade product roadmap for AI, XR, cloud, and blockchain investment and R&D.
- Managed end-to-end development and documentation of multi-cloud platform including: budgeting; hiring and managing engineers and designers; maintaining DevOps and CI/CD; and writing full-stack HTML/CSS, TypeScript/Javascript, Bash, and SQL for front-end, serverless functions, edge functions, and 3D/WebGL.

Research & Technology Specialist: Ontario Securities Commission   Feb 2021–Nov 2022
- Wrote and presented research on the impact of AI, cloud, blockchain, and decentralized finance (DeFi) on financial regulatory policy and technology, including collaborative research with Bank of Canada and U.S. SEC.
- Built a collective intelligence platform using Microsoft 365 to track and scale research organization-wide.
- Co-led communications strategy and digital launch of the Office of Economic Growth & Innovation (OEGI), including technology selection and project management for website and Microsoft Dynamics.
- Advised startups and OSC staff in a regulatory sandbox, e.g. led cloud and blockchain system architecture reviews.

Research & Communications Strategist: Element AI   Jun 2018–Feb 2021
- Produced educational content and industry insights for the management, strategy, and implementation of AI, including by analyzing custom AI solutions built for clients in multiple stacks, clouds, and industries, culminating in publication of The AI Maturity Framework, an enterprise AI adoption framework.
- Co-authored research into regional dynamics of AI adoption for an international development bank client.
- Co-authored a $2M innovation grant for AI in consumer packaged goods with Canada's top retailer.
- Project-managed a custom machine vision solution using Google Cloud (Colab) for an auto industry client.
- Rearchitected Salesforce data to support and co-lead an organizational pivot from Advisory Services to Custom Solutions, including designing taxonomy for solution configuration.

Business Systems Analyst III: Federal Reserve Bank of Minneapolis   Nov 2017–Jun 2018
- Led technical operations and support of cloud-based Saba Learning Management System (LMS) across the multi-site Federal Reserve Bank system.
- Led advanced troubleshooting of cloud vs. on-premises networking issues, e.g., using Wireshark.
- Improved department efficiency by introducing reporting and automation using Microsoft SharePoint and Microsoft Access, and documenting / training staff in the same.

Researcher / Data Science Consultant: University of Oxford & Google.org   Aug 2017–Dec 2018
- Developed a containerized (Docker) data pipeline for generating knowledge graphs from Twitter API data.
- Applied natural language processing (NLP) using Python (scikit-learn, NLTK, spaCy) and citation network analysis using Neo4j to catalog emerging research trends in AI and education.
- Co-authored peer-reviewed research about AI and "lifelong learning" (adult/workforce education) in the journal *Sociology* and represented Oxford at a Google-hosted workforce policy/leadership summit at MIT.

Wikimedia Data Assistant: The Bodleian Libraries, University of Oxford   Feb 2017–May 2017
- Developed open-source software "Recondite" using Python, SPARQL, and Google Sheets to migrate data from Bodleian Libraries scholarly data sources into Wikidata, the free and open knowledge base of the Wikimedia Foundation.

Learning Systems and Analytics Lead: RSM US   Jun 2013–Sep 2016
- Led technical operations, support, and reporting for on-premises Pathlore LMS, cloud-based Cornerstone LMS, and related systems, ensuring compliance for employees and customers at a major accounting firm.
- Managed system upgrades, on-prem to cloud migration, and enterprise integrations (e.g. PeopleSoft).
- Automated routine processes to save hundreds of labor-hours annually using SaaS APIs, SQL, Pentaho Data Integration, Python, and Microsoft Windows Server, SQL Server, and SSRS running on Hyper-V.
- Hired, supervised, and coached team members; trained staff in Microsoft Excel, SQL, and business analysis.

Sr. Technical Support Specialist / Knowledge Analyst: Spok Software   Apr 2009–Jun 2013
- Resolved advanced, root-cause technical issues for mission-critical communications, alerting, and E911 systems in hospital, military, and enterprise running Red Hat Linux, Oracle Database, Oracle Application Server (J2EE), Microsoft Windows Server, and VMware.
- Created company's first customer knowledge portal, corporate intranet, corporate taxonomy, technical documentation library, and multiple automation tools using ServiceNow and Microsoft SharePoint.

Software Migration & Testing Consultant—Team Lead: Modis IT   Apr 2008–Oct 2008
- Led a short-term project team of five to catalogue and certify business application portfolios at a major airline client by testing applications and developing custom scripted migrations and fixes when necessary.
- Developed an integrated database in Microsoft Access/SQL Server to catalog applications and drive reporting and project tracking, resulting in completion of project on time and under budget.

Geek Squad Agent: Geek Squad / Best Buy   Oct 2007–Apr 2009
- Sold, installed, configured, troubleshot, and repaired hardware and software for Windows & Mac OS PCs.
- Trained customers and employees on transition from Windows XP to Vista and 32-bit to 64-bit CPUs.

Certifications

AWS Certified Solutions Architect – Associate (SAA-C03)	2025–2028
AWS Certified Cloud Practitioner (CLF-C02)	2025–2028
LPIC-1: Linux Server Professional Certification	2011–2016
CompTIA A+	2009–

Selected Education

University of Oxford: M.Sc. with Distinction in Social Science of the Internet   2016–2017
- **Awarded 2017 Oxford Ideas Prize** for an innovative edtech product design, "Studious"
- **Master's thesis,** *Beyond the university: Mapping higher education after data science*, selected for deposit in Oxford Internet Institute library
- **Selected coursework**: internet technology and regulation, platform economics, Python, R

University of Minnesota: B.Sc. in Multidisciplinary Studies (IT/Social Science)   2009–2014
- **Selected coursework:** system analysis and design, storage administration and design, financial management, history of science and technology, logic, statistics, social theory

Selected Training

Yale (Coursera): Financial Markets (with Honors)	2021
DeepLearning.ai (Coursera): Deep Learning Specialization	2020
Stanford Online (Coursera): Machine Learning	2020
MITx (edX): Intro to Computer Science and Programming Using Python	2015
Co-Active Training Institute: Co-Active (Coach Training) Fundamentals	2015
Arthur Maxwell: Project Management Institute PMP®/CAPM® Workshop	2012