ALAIN J ST PIERRE

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SUMMARY

28 years of Software Development experience, with significant expertise in backend development and AWS-based systems, particularly within FinTech and GeoSpatial industries. Proven experience as a Senior Software Architect, capable of defining architectural requirements and facilitating efficient data processing. Highly proficient in data architecture, Cloud Technologies (AWS), ETL processes, and data governance.

EXPERIENCE

President, Founder   09/2022 – Present
STA Capital Corp, BC, Canada

- Specialized in providing tailored capital solutions to real estate investors and developers, addressing unique market demands and investment goals
- Offer financing options tailored to the unique needs of each client
- Dedicated to assisting clients in securing the necessary capital for expanding their real estate portfolios and projects.
- Demonstrated proficiency in handling a variety of real estate asset classes, catering to a broad spectrum of investment strategies.
- Focus on building long-term relationships with clients, providing ongoing support and guidance as their financing needs evolve.

Professional Real Estate Investor, Founder   01/2010 – Present
ASP Canada Investment Corp, BC, Canada

- Specialized in acquiring properties for long-term investment, leveraging market analysis to identify high-potential opportunities.
- Proficient in conducting comprehensive real estate analyses to unearth lucrative investment avenues.
- Skilled in performing meticulous due diligence, including property inspections, appraisals, and in-depth market research.
- Adept at negotiating and structuring diverse financing options (mortgages, private loans, RTO, etc.) and managing property operations including tenant relations and maintenance.
- Developed and executed innovative strategies to augment property value through renovations, rent optimization, and upgrades; adept at adapting investment tactics in line with market trends for maximized returns and risk mitigation.

Sr. Software Engineer/Architect, Backend, DevOps   04/2015 – 06/2023
Sparkgeo, BC, Canada

- Designed and implemented fault-tolerant, scalable backend systems on AWS, supporting high availability for mission-critical geospatial applications.
- Spearheaded the cloud migration for Maptiks, achieving a 75% reduction in infrastructure costs while improving throughput by 120x.

- Developed custom APIs and data processing pipelines for handling high-volume geospatial data from multiple sources, ensuring accuracy and performance.
- Collaborated across teams to develop Maptiks 3.0, including a React-based frontend and ELK stack backend, reducing ingestion costs and enabling enterprise-grade on-premise solutions.
- Created an air-gapped version of Maptiks for secure, offline deployment, tailored to military use cases.
- Led cross-functional teams to develop a real-time ship detection system, leveraging AIS and satellite data to improve global maritime security.
- Mentored junior engineers, fostering skill development and knowledge sharing within the team.

Private Wealth Advisor   02/2024 – 10/2024
Raintree Financial Services, BC, Canada
- Advised clients on alternative investment strategies, specializing in private capital markets, real estate, and exempt market products.
- Conducted in-depth financial assessments to align investment opportunities with client objectives and risk tolerance.
- Educated investors on portfolio diversification, private equity, and structured investment vehicles to enhance long-term wealth growth.
- Performed due diligence on exempt market products, ensuring compliance with regulatory frameworks and suitability for clients.
- Built and maintained strong client relationships, providing ongoing financial guidance and investment support.

Sr. Software Engineer, Backend   05/2005 – 02/2015
TD Ameritrade (Investools), NJ, USA
- Designed and maintained a custom ETL system to process terabytes of financial data daily, managing 200+ interdependent workflows with precise scheduling.
- Built scalable solutions for ingesting data from diverse sources, including APIs, FTP servers, and third-party providers like Thomson Reuters and Morningstar.
- Delivered advanced financial analytics tools, including real-time indicators like Greeks, Black-Scholes, and technical analysis (MACD, moving averages, stochastic).
- Developed the "ProSearch" feature, enabling users to perform custom scans for price breakouts, earnings, and other financial triggers.
- Partnered with business analysts and data scientists to define technical requirements and align system outputs with business objectives.
- Conducted system performance optimizations, improving data pipeline efficiency and reliability for user-facing applications.
- Provided ongoing ETL support, including on-call troubleshooting, to ensure uninterrupted data processing for financial systems.

PROJECTS

Maptiks (2.0 & 3.0): Spearheaded web map analytics platform development, enabling integration with Mapbox, Google Maps, and Esri. Delivered air-gapped, on-premise solutions for military clients and achieved cost and performance optimization through ELK stack migration.

Global Maritime Security: Built a real-time AIS data processing system, contributing to tracking illegal activities like human trafficking and improving global security.

Custom ETL Solution: Developed TD Ameritrade's ETL system to process financial data across diverse security types, empowering users with real-time analytics and alerts.

New Amsterdam Project: Co-led the development of a 16-unit eco-friendly apartment complex, addressing housing shortages in Nobleford, Alberta. Secured $4M in construction funding, managed stakeholder relations, and oversaw planning, permitting, and project execution, integrating MLI Select guidelines for sustainability and affordability.

TECHNICAL SKILLS

Leadership & System Design: Scalable Architecture, Fault-Tolerant Systems, ETL, Cloud Migrations, Cost Optimization

Cloud Platforms: AWS (Lambda, S3, EC2, RDS, Redshift, Glue), ArcGIS

Backend Development: Python, Java, Django, Django Rest Framework, Sanic

Frontend Development: React, NextJS, AngularJS, TypeScript, TailwindCSS

DevOps & Automation: Docker, Terraform, CI/CD (GitHub Actions, CircleCI, GitLab)

Data Engineering: SQL, Data Modeling, Governance, Elasticsearch, ELK Stack

EDUCATION

Exempt Market Proficiency Course   12/2023
Investment Funds Institute of Canada, ifse.ca

AWS Certified Solutions Architect - Associate   11/2022
Amazon Web Services (AWS), aws.certification

Bachelor of Computer Science w/ Distinction (Fac. Engineering)   09/2002 – 04/2005
University of Victoria, Victoria, BC

VOLUNTEER ACTIVITIES

Board Member   09/2024 - Present
Cumberland Community School Society

Scout Leader   10/2024 - Present
1st Cumberland Scout Group, Scouts Canada