

# Christopher Pang

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## WORK EXPERIENCE

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**Senior Data Engineer** | Properly Feb 2022 – Present

- Deployed feature enrichment and prediction pipelines to batch generate pricing estimates for 2M+ Canadian properties, collaborating with data scientists to deliver a strategic ML product: Properly Instant Estimates
- Discovered and resolved persistent site-wide data quality issues impacting 3%+ of property pages, including designing resilient workflows for recovering broken listing images and building reconciliation pipelines for managing deleted listings
- Streamlined primary RETS ingestion pipelines while mentoring product engineering teams to process new data sets for internal development needs including benchmark pricing, market trends, open house dates and agent availability schedules
- Orchestrated critical Airflow infrastructure upgrades, enabling migration path to using Kubernetes cluster for executing 500+ tasks, resulting in significant processing time and SLA adherence improvements across data pipelines org-wide

**Senior Data Engineer** | Validere Technologies May 2021 – Jan 2022

- Automated real-time client data ingestion within a data lake processing platform for oil and gas quality at a Series B start-up
- Improved delivery of digital twin predictive ML solutions by deploying model versioning and re-calibration infrastructure
- Introduced Airflow to organization for improved oversight of 100+ replication tasks supporting OmniSci data warehouse

**Co-Founder** | Leafi Home Sep 2019 – Apr 2021

- Embarked on an entrepreneurial leap, leading product, software, and data efforts at a smart home hardware start-up
- Launched IoT cloud and mobile platform on AWS and recruited 1K+ prospects supporting entry into UBC venture incubator

**Senior Software Engineer** | Philips North America Sep 2015 – Aug 2019

- Led analytics and UI design as engineering hire #3 at healthcare start-up Blue Willow Systems, acquired by Philips in 2018
- Architected company's 1st analytics pipeline for processing over 20M wearable IoT beacons daily using Redshift and Kinesis
- Built 1st production mobile and web apps, co-inventing patented features that enabled B2B revenue launch in under a year

**Analytics Application Developer** | Bayleaf Software Nov 2012 – Apr 2014

- Spearheaded development for a .NET self-service analytics system to compute estimations for Fisheries and Oceans Canada
- Devised batch processing service for executing R statistical scripts, increasing client's data aggregation output by 10x

**Business Intelligence Developer** | Creation Technologies Apr 2007 – Oct 2012

- Developed ETL pipelines and dashboards supporting contract pricing analysis for over \$100M electronics portfolio
- Hired as Sourcing Analyst, promoted to Commodity Manager in July 2009, transitioned to BI Developer in April 2011

## EDUCATION

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**Master of Management, Operations Research**, University of British Columbia May 2016

**Bachelor of Applied Science, Computer Engineering**, University of British Columbia Nov 2009

**Bachelor of Arts, Economics**, University of British Columbia Nov 2009

## TECHNICAL SKILLS & CERTIFICATIONS

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- Data Engineering: Python, SQL, Airflow, Spark, Dask, Kinesis, Postgres, Redshift, Terraform, Docker, CI/CD
- App Development: JavaScript, TypeScript, React, Angular, Ionic, Node.js, Flask, HTML/CSS
- Certifications: AWS Solutions Architect – Associate, Astronomer Airflow Fundamentals

## INTERESTS

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- Tennis, badminton, snowboarding, curling, DIY home renovations, user interface design, data visualizations