JUSTIN CHAN

Vancouver, BC **|** justinrichardchan@gmail.com
Jrchan.ca **|** linkedin.com/in/justinchan84 **|** github.com/jrchan84

EDUCATION

University of British Columbia - **BSc, Computer Science** *Sept 2018 - May 2023*
- Graduated with Distinction and Co-op, Student Athlete - UBC Men's Ultimate Team

SKILLS

Programming Languages: TypeScript, Python, Java, JavaScript, C, C++, Scala

Tools/Frameworks: Node.js, Express, Flask, React, HTML/CSS, Tailwind, PostgreSQL, MariaDB, NoSQL, Sequelize, AWS, Pulumi, Pytest, Jest, Selenium, Jenkins, Docker, Kubernetes, Git, Linux, TensorRT, TensorFlow, PyTorch, MLFlow

EXPERIENCE

OnDeck Fisheries AI - Founding Team **Vancouver, BC**
Software Engineer *April 2023 - Present*
- First full-time engineer spearheading core cloud products, MLOps infrastructure, and pilot edge projects.
- Led the development of a multi-tenant asynchronous video inference API to serve tuned-shared models for different computer vision tasks. Integrated weak-labeling system and custom feedback loop to continuously improve models. Pushed product from concept to private preview with initial customers in under 6 months.
- Architected cloud infrastructure on AWS and Pulumi and implemented CI/CD pipelines for microservices on EKS, customer dashboards on EC2, self-hosted MLFlow on ECS, and other tools and observability stacks.
- Developed an analytics dashboard for end users to visualize GPS and inference results and an API Portal web application for automated product documentation and account management in React and Express.
- Designed and shipped a robust edge-based flask API in under 4 months, serving fine-tuned models for real-time object detection and tracking at 40 fps on limited compute using TensorRT and quantization.
- Hired and mentored 2 full-time engineers and 5 interns, leading documentation and DevSecOps efforts.

Visier - Workflow Team **Vancouver, BC**
Software Developer Co-op *May 2022 - Dec 2022*
- Implemented custom widgets into existing analysis document functionality, expanding support for a new set of analytic features and third-party content securely. Enabled anonymous peer comments to be embedded.
- Incorporated user feedback to redesign customer authoring workflows, improving the user experience for 15,000+ customers by providing affordances for different authoring conditions.
- Closed 100% of weekly production patch bugs on schedule, reliably debugging complex full-stack code.

Royal Bank of Canada - Data Services Team **Remote (Toronto, ON)**
Software Engineer Co-op *Sept 2020 - Aug 2021*
- Developed Java microservices with Spring Boot on enterprise OpenShift environments to ingest log data efficiently into ElasticSearch, enabling centralized monitoring and adherence to data retention compliance.
- Researched machine learning PoC's in Kibana, accelerating the predictive monitoring roadmap by 6 months.
- Deployed 10+ real-time dashboards to consolidate analytics across production applications and databases.

LEADERSHIP AND PROJECTS

Google Developer Student Clubs @ UBC: Founding team and VP Tech Lead. *Aug 2020 - Sept 2022*
DeMes: Decentralized user-hosted messaging service with fault-tolerant leadership selection. *2023*
Evoly: Full stack React, Node.js, Express, DynamoDB, MapBox API geographic data map visualization. *2023*
TTNR: Custom discord bot for gamified community engagement deployed on GCE. *2022*