

Jacob

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SKILLS

Languages: Java, Python, SQL (Postgres), JavaScript, Typescript, HTML/CSS, R
Frameworks: Django, Node.JS, Flask, JUnit, MongoDB, Express
Databases: MySQL, PostgreSQL, SQLite, MongoDB, Redis, DynamoDB, CloudSQL
Developer Tools: Git, Docker, Jenkins, Github Actions, Kubernetes, Terraform, Ansible, GCP, AWS
Libraries: Jest, Cypress, React, Electron, ExpressJS, Prisma, Pandas, NumPy, TensorFlow

EXPERIENCE

DevOps Co-op

May 2022 – September 2022

Checkfront

Victoria, BC

- Utilized infrastructure management tools, including Terraform and Ansible, to design and execute security policies, enabling Checkfront Payments to attain full PCI compliance
- Diagnosed and resolved a critical bug in Filebeat and Logstash configuration within a Kubernetes environment, efficiently reducing backlog and processing over 25 million previously unprocessed logs weekly on Google Cloud Platform (GCP).
- Collaborated with a team of 5+ developers to effectively implement AWX Tower, and OAuth through Google workplace resulting in the efficient management of 30+ Ansible playbooks.

Software Engineer

Nov 2020 – Apr 2021

[REDACTED]

San Francisco, CA

- Collaborated with a team to build a high-performance automation tool for the checkout process, generating over \$100,000 in profits for users.
- Developed extensive knowledge on security solutions such as Akamai and Datadome's Anti-bot and priority queue systems to reduce detection of the automation tool by reverse-engineering their solutions.
- Designed a high-performance custom request library equipped with TLS Fingerprinting, TLS Hello, SSL, WebSockets, and Server-Push protocols, which led to a 75% enhancement in request processing and a 95% reduction in memory usage when compared to headless browsers like Puppeteer, ensuring optimal tool performance.

Backend Software Engineer

Sep. 2019 – May 2020

Realm Blockchain

Victoria, BC

- Designed and implemented a user-centric feed algorithm for a social media app using Redis and Node JS. Incorporated popularity metrics and personalization techniques, resulting in a significant increase in user engagement.
- Collaborated with a cross-functional team to develop and deploy a scalable computer vision model using TensorFlow, Docker, and AWS to capture, and process game statistics from 1000+ Twitch.tv streams concurrently, resulting in streamlined content analysis and enhanced data-driven insights.
- Created 10+ site scrapers in Node.js and Python to scrape, and process a user's game statistics. The data was then applied to user customized trading cards, enhancing insights for 2500+ users.

PROJECTS

DiscordDollar | *Typescript, Jest, Discord.JS, Docker*

December 2022 – Present

- Created a Discord bot in Typescript that simulates a virtual economy.
- Incorporated a custom Stock and Options marketplace to promote financial literacy, and to allow users to invest in a risk-free environment.
- Utilized CAPTCHA-style challenges using TypeScript to offer users engaging ways to earn virtual currency while preventing bot abuse.
- Utilized Discord channels for secure ledger updates, reducing the dependency on a separate database.
- Employed the Jest testing library to enforce test-driven development.

EDUCATION

Bachelor of Software Engineering

Sept. 2018 – Present

University of Victoria

Victoria, BC