

# Tom Lee

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## TECHNICAL SKILLS

**Languages** JavaScript/Node.js, Python, Go, Ruby, Java, C, Bash, SQL, HTML, CSS  
**Tools & Technologies** Django, React, Redux, Rails, Docker, Typescript, RabbitMQ, Jest, Azure, AWS, Git

## EDUCATION

### The University of British Columbia

Sep 2016 - Dec 2020

B.A. in Computer Science, Minor in Economics | CGPA: 3.75

Core Courseworks: Parallel Computing, Advanced Databases, Internet Networking, Distributed Systems, Algorithms & Data Structures, Operating Systems, Software Engineering, and Computer Graphics

## WORK EXPERIENCE

### Software Development Consultant

May 2019 - May 2020

#### reBOOT Canada – Remote (Contract)

[PYTHON](#), [DJANGO](#), [POSTGRES SQL](#), [HEROKU](#), [JAVASCRIPT](#), [RABBITMQ](#), [DEPLOYMENT](#), AND [SECURITY](#)

- **Led the development of donor management platform from inception to launch with a team of 8 devs**
- Worked with **Django MVT architecture** and **RabbitMQ Celery** job queue minimizing HTTP request time
- Developed CRA-compliant tax receipt generator saving ~500 hours yearly
- Created database migrations and optimized database queries by batching and join ordering using ORM
- Deployed the app on **Heroku** with HTTPS certification and secure environment variables

## INTERNSHIPS

### Software Engineering Coop

Sep - Dec 2019

#### TELUS – Vancouver, BC (Co-op, Full-time)

[REACT.JS](#), [NODE.JS](#), [OAUTH2 WITH OPENID CONNECT](#), [DEPLOYMENT](#), AND [SECURITY](#)

- Wrote a reusable security library using "stateless" OAuth2 with OIDC for any **Node** microservices
- **Reduced request time by 92% via optimizing JWK fetching and stateless token validation caching**
- Presented the library to 40+ developers, business analysts, and architects accruing cross-team interests

### Junior Web Developer

Jan - Aug 2018

#### ModernAdvisor (Now part of Guardian Capital Group) – Vancouver, BC (Co-op, Full-time)

[RUBY ON RAILS](#), [ANGULARJS](#), [PROTRACTOR](#), [MYSQL](#), [AWS EC2](#), AND [DEVOPS](#)

- Developed **SCSS**, **AngularJS** & **Ruby on Rails** full-stack web app for a financial robo-advisor industry
- Created a new client signup flow, client portfolio reporting tool, and multiple bank accounts support
- **Decreased the failure rate of Protractor tests by 70% by optimizing configuration and input sanitization**
- Worked on user authentication, database migrations, UI implementation, and API endpoints

## PROJECTS

### HR Resource Utilization Platform - four-nine | Academic

Jan 2020 - Apr 2020

[REACT.JS](#), [REDUX](#), [C#](#), [.NET CORE 3](#), [MS SQL SERVER](#), [ACTIVE DIRECTORY](#), [GITLAB](#), [AZURE APP SERVICE](#), [NGINX](#), [DOCKER](#)

- **Placed first in delivery quality and performance of the projects evaluated by Associated Engineering**
- Created GitLab CI/CD pipeline with build tests, automated Docker publishing and NGINX CDN startup
- Used React Hooks to manage component lifecycles and connect UI components to **Redux** and **.NET** APIs
- Delivered client requirements and manage project through effective Scrum framework and documentations

### Applicant Management Platform - pinpoint | UBC Launch Pad

Sep 2018 - Apr 2019

[GO](#), [DOCKER](#), [REACT.JS](#), [BASH](#), [PROTOCOL BUFFERS](#), AND [SECURITY](#)

[git.io/fhnNM](https://git.io/fhnNM)

- Experimented **Go gRPC** and **Protobuf** serialization creating 30% smaller request messages (vs JSON)
- Incorporated OTP user verification, and login flow features using security best practices with JWT-protected REST endpoints, secure credential storage, and secure database connection

### Course Availability Alerter - FreeEyeOut | Personal

Sep 2017

[PYTHON WITH SCRAPY](#), [BASH](#), AND [WEB SCRAPING](#)

[git.io/fjw2l](https://git.io/fjw2l)

- Created a UBC course status scraper that sends email alerts when seats are open