Tom Lee

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TECHNICAL SKILLS

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

EDUCATION

The University of British Columbia   Sep 2016 - Dec 2020

B.A. in Computer Science, Minor in Economics | CGPA: 3.75/4.33

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, POSTGRESQL, 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 ~750 hours of manual work yearly*
- Deployed on Heroku with TLS certificate and secure environment variables managing 2 instances (test/prod.)
- Optimized database schemas by normalizing and ORM queries by batching and join ordering

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

Junior Web Developer   Jan - Aug 2018
ModernAdvisor – Vancouver, BC (Co-op, Full-time)
RUBY ON RAILS, ANGULARJS, PROTRACTOR, MYSQL, AWS EC2, AND DEVOPS

- Developed a full-stack web app (Ruby on Rails, AngularJS & SCSS) for financial robo-advisor platform
- Overhauled 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 React 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

- *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

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