

# Tim Baker

FULL STACK SOFTWARE ENGINEER · SECURITY SPECIALIST

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*"Security is always excessive, until it's not enough."*

## Education

### UVIC(University of Victoria)

Victoria, BC, Canada

B.S. IN COMPUTER SCIENCE, SOFTWARE ENGINEERING OPTION

2013 - 2018

### GPRC(Grande Prairie Regional College)

Grande Prairie, AB, Canada

DIPLOMA OF COMPUTER SYSTEMS TECHNOLOGY

2011 - 2013

- Attended on a ACAC soccer scholarship

## Skills

**Programming** Javascript, Node.Js, Python, Java, C/C++

**Web - Frontend** React, Vue, NextJs, Redux, Mobx, Webpack, HTML5, CSS, SCSS

**Web - Backend** Express with Node.JS, GraphQL, Laravel with PHP, Django with Python, Elastic Search

**Mobile** React Native

**Database** Postgres, MongoDB

**DevOps** Docker, Cloud 66, AWS - Lambda, EC2, S3

**Machine Learning/ AI** Python, TensorFlow, AWS Lex

**Languages** English, Spanish (in progress)

## Experience

### Software Security Engineer

Victoria, BC

SHOP YOUR OWN MORTGAGE

Aug. 2019 - Present

- Built out a custom user management and authentication system for our next generation technology
- Daily monitoring of existing security systems and ongoing efforts to improve our stance
- Implemented company-wide endpoint protection and VPN usage
- Implemented company-wide phishing training
- Led a key migration of company database to AWS RDS to enable encryption of data at rest
- Led initiative to get the company compliant with the security requirements of a key financial 3rd party partner
- Built an AWS Lambda antivirus scanner for file uploads from our public portal
- Uncovered a severe vulnerability in an internal process and came up with a solution in minimal time. Worked with necessary internal members to mitigate and recover with zero data loss. Educated internal members on the vulnerability and enacted a new process to eliminate it.

### Full Stack Software Engineer

Victoria, BC

SHOP YOUR OWN MORTGAGE

Sep. 2018 - Present

- Working on a complete overhaul of legacy technology to better align our systems with company direction
- Developed a NextJs server-side rendered website for our Australian branch with a Strapi headless CMS backend
- Led development of a real estate website built with NextJS, Typescript, Mobx and Mapbox frontend and a Node/Express, Typescript, and ElasticSearch backend (Currently in pre-release state)
- Built a new Node/Express + Typescript server that we are gradually developing to replace our legacy backend
- Built a pixel tracking system to gather analytics on how users interacted with our mobile app
- Developed an internal admin portal to increase efficiency of the mortgage team
- Led development of company mobile app using React Native and Redux to tie into our existing Laravel backend

## Extracurricular Activity

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### Certified Ethical Hacker

CERTIFICATION

*Victoria, BC*

*Aug. 2019 - PRESENT*

- Studying to prepare for EC-Council's Certified Ethical Hacker Certification

### Security+

CERTIFICATION

*Victoria, BC*

*Dec. 2019 - PRESENT*

- Studying to prepare for Comptia's Security+ Certification

### Hack The Box

MEMBER

*Victoria, BC*

*Aug. 2019 - PRESENT*

- Gaining practical experience in key hacking concepts and techniques by practicing on intentionally vulnerable sandboxed machines

### Bear's Blooms

DEVELOPER

*Victoria, BC*

*Apr. 2019 - Oct. 2019*

- Helped a friend build the tech foundation for his now Vancouver-based flower subscription
- Initial application built on a Postgres, Django, and Vue stack
- Helped validate architecture, built authentication flow, and helped develop the initial Vue frontend

### React Resume Website Template

DEVELOPER

*Chiang Mai, Thailand*

*Aug. 2017*

- Built a React-based resume website template (hosted on my github) to allow other developers to download and create their own by simply modifying a config file and uploading new images