# Filip Francetic Software Developer

### Skills

- o Languages: Javascript/Typescript, Python, Java, Bash, PHP, C, C++, Objective-C
- o Frameworks and Tools: React, Node, MySQL, PostgreSQL, Angular
- o Proficient in iOS and Android development
- o Experienced with Linux and Git

# Employment

# GroupBy Inc.

#### September-December 2017

Developer for e-commerce product search platform; primarily worked in TypeScript

#### Past Purchase Page.

- o Built new page from scratch under short deadlines for interacting with a user's previously purchased items
- o Focused on performance by modularizing data, splitting loading between the initial page view and subsequent requests for specific data
- Worked within agile cycle, with rapid and frequent demos

#### Real Time Biasing.

- o Led work on a system for personalizing the order of products based on user's browsing habits
- o Developed a recommendations system which increases the relevency of items based on a user's current preferences
- Built in customization to allow per-client configuration of overall impact of personalization on item order

# Ingle International.

January-April 2017

Internal apps developer, primarily worked in PHP and JavaScript

#### Health Platform Frontent Redesign.

- o Redesigned Health Platform using React in order to improve performance and facilitate future development
- Overhauled existing software using functional components

### Magenta (Third Party) Systems Integration.

- Integrated of third party insurance database into existing systems in order to improve performance
- Wrote robust PHP API for interfacing Ingle software with the third party application
- Led project development on integration project

# Bronte College.

April-August 2016

- o Residence App: Designed an Android app interface to allow students to book residence rooms and manage them (Java, SQLite, and XML)
- o User Authentication System: Rebuilt user authentication using JSON Web Tokens to authenticate
- o Cafeteria System: Greatly improved performance and on average halved amount of network requests by implementing SQLite database to store previous requests in a local cache

## Projects

#### **Cryptocurrency Algorithmic Market-Making.**

November 2016-Present

- o Designed and implemented Python 3 application to perform market-making on cryptocurrency markets
- Saw average of 8.8% monthy return on investment
- o Mathematically determined best ideal parameters for algorithm using robust backtests
- o Ran trading application from personally administered Raspberry Pi server

# C++ Dungeon Crawler.

November 2016

- Created a Rogue-inspired top-down dungeon crawler in C++
- Built a command line interface using ncurses
- Designed map generation, spawn generation, and enemy AI

#### Java Communication Application.

April-June 2015

- Developed client/server messaging modules and UI functionality for a custom-made Webchat in Java
- Designed and styled UI with JavaFX, used RMI as communications API

#### Education

## Candidate for Bachelor in Honours Computer Science,

2015-2020

University of Waterloo, Waterloo, Ontario.

- Other o Trilingual in English, French, and Serbian
  - o Huge Super Smash Bros Melee fan
  - o Devoted Emacs user
  - o Avid long distance cyclist, loves taking long trips across Toronto