

# STEFAN MANOIL

## Computer Science Undergraduate

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StefanManoil

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## WORK EXPERIENCE

### Infrastructure Engineer Intern @ Sandvine

September 2019 – December 2019

- Worked on **Continuous Integration** infrastructure using **Jenkins**, **Groovy**, and **Python**.
- Reduced build times by **30 minutes**, by leveraging **multi-git** functionalities along with **sparse-checkout** to create **Python** scripts that gracefully handle the presence, or lack thereof, of **YAML** files across multiple repositories.
- Created and maintained various test pipelines for the **CI** infrastructure with **Groovy**, and automated the modification of **YAML** files.

### Back-End Developer Intern @ Chef's Plate/Hellofresh

January 2019 – April 2019

- Backend developer** on the **Payments** team also working on internal tooling and various projects within the core product with **PHP Laravel**, affecting **millions of users**.
- Optimized query response times by **more than 1500%** for internal tool client using **MongoDB index queries** and enabled dynamic filtering of query responses with **ElasticSearch**.
- Worked extensively on migrating backend services for payment processing from **Stripe** to **Adyen** which resulted in a **significant decrease** in company expenses.
- Improved **CRM** by redesigning the entire automated email infrastructure using **MailChimp API** and **Mandrill**. Created new email templates in collaboration with marketing stakeholders.
- Added new FedEx shipping accounts and intelligently mapped them to shipping hubs already in place using **FedEx Web Services API**.
- Polished **Laravel Doctrine** ODM wrapper which fixed bugs regarding soft-deletion of entities.
- Created unit tests and integration tests which boosted test coverage by **8%**.

### Full-Stack Developer Intern @ rBux Inc.

May 2018 – August 2018

- Implemented key features in e-commerce apps for **Shopify** and **WordPress** plugins using **Ruby on Rails**, which improved user satisfaction and product rating.
- Collaborated closely with the marketing team to improve the look and feel, overall design, and responsiveness of company landing pages using **React**.
- Led the development of new functionalities that allowed the categories of various online e-commerce stores to map intelligently to those of the rBux e-commerce store with **PHP** and the help of **word-finding query APIs**.

### Android Engineer @ Veme.ly (Part-time Remote)

October 2019 – November 2019

- Android developer** working extensively on the FAQs portion of the Veme.ly Android app. Created a responsive FAQs page with a list of scrollable and clickable items using **Kotlin**, **XML**, and **Dagger** for dependency management.
- Developed **XML** layouts relating to FAQs, the most prominent using **RecyclerView**, and the **Activities**, **Fragments**, **ViewModels**, **Adapters** for layout-inflation and data-binding.
- Implemented connection to **Firebase** back-end, retrieving and sending data to **Cloud Firestore**.

## SKILLS

### Languages

Proficient:

Java C++ PHP SQL

Familiar With:

Kotlin JS/Node.js Python

### Frameworks

Laravel Express React

### Tools

MySQL MongoDB Elasticsearch  
Redis Docker Git Jenkins Jira

## PROJECTS

### Honour Roll Displayer

#### Java App

May 2018 - Current

- Created a **Java** application for my local high school that displays information about students who are on the school honor roll. Fully Interactive GUI allowing to add, update, and delete data with **MySQL** using a **JDBC** connection and **Maven** to inject/manage dependencies.
- St Marcellinus S.S is **currently using the app** on monitors in the school hallways!

### Ms Manoil's Notes

#### Full-Stack Website

December 2019 - Current

- Created a full-stack website for my mother's high school Computer Science classes using a **Javascript/Bootstrap** front-end and a **Node.js/Express** back-end.

## EDUCATION

### University of Waterloo

#### Bachelor's Of Computer Science

Sep. 2017 - December. 2022

- Data Structures/Algorithms
- Compilers
- Databases