

Marko Nerandzic

3A Software Engineering

Skills

Experienced with

C, C++, Java, Python

Familiar with

SQL, C#, Javascript, Node.js

Novice at

HTML, CSS, Scala, Android Development

Interests

- Mobile applications
- Graphics programming
- UI programming

Contact

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Hobbies

- PADI-certified scuba diver
- Reading
- Running
- Board Games

Work Experience

Yelp

Software Engineering Co-op

San Francisco, CA

September 2015 - December 2015

- Worked on Payments team to increase reliability of payment systems using **Python**
- Created initial versions of redesigned payment APIs and workers
- Designed healthcheck system to ensure health of payment systems, **solved concurrency problems**
- Refactored legacy code in payment systems to prepare for asynchronous collections

Microsoft - Black Tusk Studios

Software Development Engineer Co-op

Vancouver, BC

January 2015 - April 2015

- Optimized workflows by creating internal tools for clients in **C#, ActionScript, and Python**
- Eliminated time-consuming manual processes by creating a tool to automatically synchronize video clip information between Autodesk Maya and Premiere Pro (**ActionScript, Python**)
- Developed extensive features for Unreal Engine 4 editor, including new view modes (**C++**)

Ontario Institute For Cancer Research

Software Developer

Toronto, ON

May 2014 - August 2014

- Implemented web application using **Scala** and the **Play Framework**, and **HTML, CSS, and JavaScript** for front-end, to aggregate data in order to generate XML metadata files for a set of data selected by user
- Worked on RESTful web service in **Java** to interact with a **PostgreSQL** database
- Took the initiative to create a script in **Python** to manage data uploads that increased the amount of data uploaded daily by over **100%**

Projects

Paired Link

Hack The North Project

Developed backend for link-sharing Firefox Extension using Node.js and Sockets.io

Chat Program

Personal Project

Created a chat program with sockets and custom GUI in Python

Sudoku Solver

Personal Project

Designed, tested, implemented custom algorithms to solve Sudoku puzzles in Python

Food Recommendation Engine

Computer Science class

Designed a program in Python to recommend different food nationalities based on previous preferences with rating algorithm

Education

University of Waterloo

Candidate for Bachelor of Software Engineering

September 2015 - June 2018