

SHAYON BANERJEE

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Employment

CAE - Cloud Enabled Services Team

Montreal, Canada

Software Developer (Co-op evaluation: Outstanding)

May 2017 to Aug 2017

- Refactored components of the NextGen engine by ensuring proper dataflow and flexibility.
- Developed tools and web APIs for data analysis on a 100 terabyte flight simulator blob storage.
- Increased product code coverage from 10% to 55% while maintaining TDD principles.
- Worked extensively with C#, Angular2, and the Azure Service Fabric.

MacroTech Steuerungstechnik GmbH

Freiburg, Germany

Programming Assistant and Web Developer (Co-op evaluation: Outstanding)

May 2016 to Aug 2016

- Rebuilt the architecture of the company website by applying HTML, CSS, JavaScript, and PHP.
- Increased website activity by 45% by implementing search engine optimization.

Skills

Languages: C, C++, C#, Java, Python, JavaScript, Bash, R, and Scheme.

Other tools: Node.js, Angular2, ExpressJS, MongoDB, Android, HTML/CSS, Qt, jQuery, Git, Unix/Linux.

Interests: Executive member at Waterloo Networking Association, Project Euler, Hackerrank, Leetcode.

Communication: Bilingual (English & French).

Notable Projects

LawYourUp (Python, Flask, HTML, CSS, JavaScript, Java)

- Collaborated with a lawyer to create an application that mitigates the hassle of finding legal precedent.
- Trained a model on 300,000 court cases using the Doc2Vec algorithm to match similar cases instantly.

SoundMatch (Java)

- Parses sheet music into a collection of musical note frequencies.
- Performs a comparative analysis on the frequencies obtained from a user playing a song in real-time.

Educanimour (Node.js, Angular2, ExpressJS, MongoDB)

- Developed a scalable multi-page shopping store web application using MEAN stack technologies.
- Created with extensibility in mind, the application has an integrated shopping-cart and admin page.

StockCalculator (C#)

- Calculator application that graphically displays NYSE stock charts in real-time.
- Downloads and filters historical stock prices from Yahoo Finance.

WatNews (C++, Qt)

- Mobile application that pulls and aggregates JSON data from the University of Waterloo Open Data API.
- Gives users the ability to access and read the latest news articles from the University of Waterloo.

Education

University of Waterloo

Bachelor of Computer Science 2020

Courses: Algorithms, Data Structures, Compilers, OOP in C++, Combinatorics, Graph Theory.