

Yan Zhang

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Education

BACHELOR'S DEGREE | 12/2017 | UNIVERSITY OF WATERLOO

- Major: Computer Science
- Awards: University of Waterloo Merit Scholarship, University of Waterloo
- Related coursework: Algorithms, Data Structures, User Interface, Networks, Security and Privacy, Databases

MASTER'S DEGREE | IN PROGRESS | UNIVERSITY OF OTTAWA

- Major: Computer Science
- Related Interest: Deep Learning in application
- Related coursework: E-commerce, Distributed Algorithms, Deep Learning

Experience

CANDEV CHALLENGE HACKTHON

- Designed backend services for new immigration to find all files required when come to Canada
- Utilized Separation of Concern principle to implement backend
- Developed location services using flask and adapted web scraping technique
- Integrated Google map location and route arrangement services for user to query location from governments' website

C++ PROGRAMMER | NOVA MINING EXPLORATION SOLUTIONS | 05/2016 – 08/2016

- Designed independent parser for borehole data viewer, improve and optimized the user interface for clients to view the DC and IP plots separately
- Optimized the workflow for clients by arranging tools required into single tab by redesigning GUI for dcip2d.
- Created 3D modeling with features of long section by using Clip Plane in OpenGL
- Decreased workload by allowing user to view multi-channel plots through loading structured files

Projects

E-COMMERCE WEBSITE

- Utilized separation of concerns principles when implement the website by adapting multi-layer structures
- Designed RESTful web service in backend enabling UI layer to initiate SSL request by Incorporating Jersey
- Integrated both MySQL and MongoDB as database by using Hibernate ORM connections

DOODLE PAINTER

- Utilized MVC principle to separate the responsibility of each module
- Created adaptive layout for tool accessibility by using dynamic layout
- Implemented saving and loading mechanism in human readable format other than Java File Stream

Skills

Languages: (proficient): C++, Java, C, Python (familiar): JavaScript, SQL, HTML/CSS

Tools: Git, Mercurial, Latex