Michael(Shenghan) Zhang

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Nationality: Canadian

Work Experience

Rapid3D   Dec 2018 - Feb 2019

Jr. Application Engineer   Calgary

- Maintain the integrity of FaceScan system.

- Debugging existing Excel Macros to suit customer's needs.

- Constructed CAD models from 3D scanned data in a timely manner.

QuoData   Jun 2018 - Aug 2018

Data Analyst   Dresden

- Improved the overall layout of the company website by logging bugs and giving suggestions.

- Increased the accuracy of current algorithm to calculate maximum likelihood using R Studio.

Education

University of Calgary   Sep 2019 - Aug 2020

Software Engineering Master   Calgary

Programming Languages:

Python(Proficient), Java(Expert), MySQL(Prior experience), C++(Prior experience), JavaScript(Prior experience), React.js(Expert), Django(Expert)

Relevant Coursework:

- Software Design & Architecture
- Dependability and Reliability of Software Systems
- Database Design

University of Calgary   Apr 2018

Mechanical Engineering Bachelor's Degree   Calgary

- Relevant Coursework:
    - Engineering Graphics and CAD - Technical sketching, 3D modeling with Solidworks.
    - Professional and Technical Communication - Planning, composing, and delivering professional and technical communication for various audiences.

Personal Projects

Capstone Project - Ignite Education Platform   May 2020 - Aug 2020

Aranite Inc.   Calgary

- Front-End development using React (hooks), redux
- Dockerized containers for rapid deployment, navigating Linux
- RESTful backend development using Django REST framework and Axios
- Agile (SCRUM) management methodology using GitHub stories
- JavaScript/TypeScript and Jupyterlab extension development

NBA Mini Database   Jan 2020 - Apr 2020

University of Calgary   Calgary

- Scraped NBA data from interent with python
- Constructed a MySQL database in Django
- Created frontend with Django
- Implemented lookup functionalities with Django ORM

Capstone Project	Sep 2017 - Apr 2018
Team Leader University of Calgary	Calgary

- Organized meetings and assigned tasks to different members according to their strength.
- Designed and manufactured a functional robotic foot using aluminum and carbon fiber.
- Conducted weekly meetings with professor and attained constructive feedback.
- Assembled a robust foot which can withstand 10 times the weight of the robot.

Innovation4Health   Oct 2017 - Nov 2017

Designer

- Designed a container that prolongs the life of a knee cartilage by applying direct force.
- Integrated a feedback system with a force sensor to achieve precision loading.
- Maintained the integrity of the cartilage by using a 3D modeled silicon base for cartilage to sit on

Others

- **Languages** Chinese(Native),English(Fluent)
- **Interests** Basketball(University 3on3 Tournament Champion),Hiking
- **Activities:** Volunteering(Habitat for Humanity, University Convocation), Dog Walking(Rover)