



Shelley Shen

CONTACT

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SKILLS

Languages

Javascript (ECMAScript6),
Python, Java, MATLAB, C#,
C++, HTML/CSS

Database

Elasticsearch, PostgreSQL,
MySQL, SQLite, MongoDB

Framework

Angular, Node.js, Express,
Sequelize, Mocha, Chai,
React, Browserify

Tools

Git, Phabricator, Docker,
Gradle, Postman, Spark,
Hadoop, Yarn, AWS, Falcon

EDUCATION

University of Waterloo

Systems Design

Engineering

Class of 2019

Relevant Courses:

Introduction to Pattern
Recognition | Software
Design | Data Structures
and Algorithm |
Probability and Statistics |
Introduction to Control
Systems

EXPERIENCE

Trifacta Inc · Software Engineering

Berlin, Germany | Sept 2017 - Dec 2017

- Introduced a workspace model in application: migrated the existing databases (**MySQL**, **PostgreSQL**) and application versions (Google Cloud Dataprep, Trifacta Wrangler Enterprise) to the new model using **Sequelize**
- Designed and developed an algorithm to search a cross version file system (HDFS and DFS) based on Depth First Search algorithm
- Implemented an email and Slack connected notification system using **React** and **Server Side Events** that led to a reduction of HTTP overhead by 50%

Deloitte Innovation Lab · Software Product Designer

Kitchener, Canada | Jan 2017 - Apr 2017

- Performed text mining and sentiment analysis using **Natural Language Processing** tools such as IBM Watson, Spacy and developed a data analysis formula to discover and extract information on investment trends
- Scraped, collected and parsed more than **300,000 articles** and content from RSS feeds, Google Patents, World Bank and Crunchbase using **Python**
- Developed full stack **angular** and **node** app to display collected data using effective visualization (Highchart and D3.js)

CIBC Capital Markets · Application Developer

Financial District, Toronto, Canada | May 2016 - Aug 2016

- Researched and analyzed different methods of consuming **REST API**, then designed and implemented **.NET** prototype client application that consumes internal REST API for Bloomberg Terminal
- Tested and deployed the migration of data from **Sybase** to **Oracle**
- Replaced an existing **C#** charting library with Highcharts

Nokia · Software Designer

Ottawa, Canada | Sept 2015 - Dec 2015

- Implemented and deployed for Nokia's Network Services Platform product in **Java** that allows users to define primary and secondary network addresses in both IPv4 and IPv6 formats leading to a higher level of configuration

PROJECTS

Real Time Tic Tac Toe [React](#), [Node JS](#), [Socket.io](#)

Allows users on the same LAN to select players and play Tic Tac Toe match in real time

<https://github.com/chenleishen/Real-time-Tic-Tac-Toe>

Football Score Predictor [Angular](#), [Node JS](#), [Falcon \(Python\)](#), [ElasticSearch](#)

An app that predicts the score of a football game using logistic regression

<https://github.com/chenleishen/football-predictor-frontend>