

# Dennis Zhang

COMPUTER SCIENCE MAJOR

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## Skills

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**Languages** - Python, Java, Scala, C/C++, HTML5, CSS, JavaScript, TypeScript, PostgreSQL, MySQL

**Frameworks** - React, Redux, D3.js, Chart.js, Java Jersey/RESTful API, Flask, Apache Spark, JUnit5

## Personal Projects

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### Smart Analytics - DataPrep

Burnaby, BC

FULL-STACK DEVELOPER

Nov 2020 - PRESENT

- Developing a data preparation software from end to end (e2e) in a team of 3 to clean and reformat raw data
- Created spark accumulators to process user's metadata in parallel, increasing data processing efficiency by 60%
- Working with JSON on back-end server side, designing and integrating Jersey RESTful API services using Java
- Implemented 2 dynamic D3 visualizations with user's data to improve pattern recognition
- Developed 6 data transformations including data clustering using Levenshtein distance algorithm
- Building with React, Redux, TypeScript, Java Jersey, Apache Spark, Scala, and MySQL

### Portfolio Website | [GITHUB](#)

Burnaby, BC

WEB DEVELOPER

Oct 2020 - PRESENT

- Developed a responsive and minimalistic personal website showcasing my skills and project experiences
- Utilized custom features and animations from third-party libraries
- Built with HTML, CSS, JavaScript, and React, applied knowledge of React Hooks

### Rate My Professors Visualizer | [GITHUB](#)

Burnaby, BC

FULL-STACK DEVELOPER

Sep 2020 - Oct 2020

- Developed a web app to visualize professors' data such as top ratings, difficulty levels and top comments
- Implemented REST API to web scrape professors' data from the popular website Rate My Professors
- Performed sentiment analysis on comments from students to professors to gain insight and displayed in charts
- Utilized MySQL database to save, retrieve, update, and delete professors' information in a history table
- Built with React, Chart.js, Flask, Beautiful Soup and MySQL

### Brick Breaker 2D | [GITHUB](#)

Burnaby, BC

DEVELOPER

Feb 2020

- Developed a 2D arcade Brick Breaker game platform using Java
- Demonstrated code organization skills by modularizing programs and defining appropriate classes

## School Projects

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### Cheezy Nibbles | [GITHUB](#)

Simon Fraser University, BC

TEAM LEAD

Feb 2020 - Apr 2020

- Led a team of 4 as scrum master to create a 2D desktop game in Java, ensured sprint deadlines were met
- Documented project design phases through each iteration and designed UML diagrams
- Implemented graphics, core game logic and menu pages using Java Swing
- Performed user testing, used JUnit5 for unit testing, mocking tests, with nearly 100% coverage

## Work Experience

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### Virtual Tutoring

Burnaby, BC

PYTHON TUTOR

Sep 2020 - Dec 2020

- Tutored 5 students every week on the basics of programming in python for their intro to programming class
- Taught them coding fundamentals such as data types, loops, logic statements, arrays, etc.
- Average grade received in the course was a B+

### Parkgate Farm Market

Burnaby, BC

SALES ASSOCIATE

Jan 2017 - PRESENT

- Promoted within 2 months due to strong performance and organizational impact - ahead of schedule by 10 months
- Facilitating and assisting new trainees with training and participating in employee consultations

## Education

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### Simon Fraser University

BC, Canada

BACHELOR'S OF SCIENCE IN COMPUTER SCIENCE

Sep 2017 - PRESENT

- Anticipated Graduation Year: June 2022