

# JASMEET BRAR

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## SKILLS

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<b>Programming Languages:</b>	Python, Java, C/C++, HTML, CSS, PHP, JavaScript
<b>Libraries and Frameworks:</b>	ReactJS, VueJS, NodeJS, Bootstrap, Ant Design, Styled Components
<b>Databases:</b>	MySQL, Postgres, MongoDB, DynamoDB
<b>Other Technologies:</b>	Git, GDB, AWS, Docker, Laravel, CMake, CTest
<b>Soft Skills:</b>	Agile, Scrum, Object-Oriented Programming, Design Patterns

## EXPERIENCE

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### FINNEO – Mississauga, Canada

Software Developer

Jun 2019 – Aug 2019

- Coordinated with the CEO and the software team on determining the best frameworks to develop a new website in a given timeframe that is extensible and maintainable
- Enhanced the firm's marketability by modernizing the firm's website by porting over features from their old site to a new site developed with ReactJS
- Adapted the company's aesthetics into the site's design by using Ant Design Framework and Styled Components
- Made the site more informative by adding Google Maps components using the React Google Maps API

### AMHIL ENTERPRISES – Mississauga, Canada

Systems Analyst

May 2018 – Aug 2018

- Improved the IT team's productivity by automating daily tasks in Outlook using VBA and VBScript
- Coordinated with the systems programmer in generating queries for MS SQL using T-SQL
- Sustained business operations by diagnosing and troubleshooting software or hardware issues that other workers face with their PC
- Reported any new issues in the team's database and provided procedures on how to resolve those issues

## PROJECTS

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### Simple-C Compiler

- Currently working on a compiler that can compile a simplified version of C to Assembly or x86-64
- The source files are written in C++ and it uses CMake as a build system
- Test-driven development is currently being used where GitHub Actions is used to automate testing done with CTest

### Simple Toy Language Compiler

- Worked in a team of four to develop a compiler that can compile a simple programming language into instructions that a VM can execute
- The project was primarily done using Java and Apache Ant build system, while JFlex was used as a lexical analyser, and Java CUP was used as a parser

### AWS r/Place Project

- Worked in a team to recreate an online canvas that would be deployed on AWS by implementing an architecture that is responsive and scalable
- The server code was done using NodeJS and a Dockerfile was created to have scalable containers
- AWS technologies such as ECS, Redis, and DynamoDB ensured that the architecture is scalable, data is replicated and is safe, and that the user experience is uncompromised

## EDUCATION

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### UNIVERSITY OF TORONTO

Graduated: Jun 2020

Honours Bachelor of Science with High Distinction, Computer Science Specialist, Math Minor

Cumulative GPA: 3.63

Relevant Courses: Algorithms, Operating Systems, Scalable Computing, Web Programming, Databases, Machine Learning, Neural Networks, Natural Language Processing