Aaron Jacob Tan

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SKILLS

Languages: Java, C, Javascript, Python, SQL, HTML, CSS
Technologies: NodeJS, Spring Boot, Bootstrap, MySQL
Methods: Agile Development, Git Version Control

EDUCATION

University of Toronto   **September 2018 – Present**
Candidate, Honours BSc. (Co-op)
Computer Science – Software Engineering Specialist, 3rd year

EXPERIENCES

Software Developer   **May 2020 – August 2020**
Fundserv Inc., Toronto, ON
- Automated the process of configuration file changes for Fundserv's SSO services using Ansible, Jenkins, and Github, eliminating the need for manual changes required with version upgrades
- Refactored code of 4 Spring Boot applications, improving the source code's maintainability and decreasing technical debt
- Upgraded 3 Angular applications from Angular 7 to Angular 9, resulting in smaller bundle sizes and faster performance

Information Technology Intern   **January 2020 – May 2020**
Lundin Mining, Toronto, ON
- Wrote a Python script to insert required data into an Excel spreadsheet as part of the data collection process for the incoming ITSM tool
- Created an IT Systems and Applications Catalogue that identified all applications and systems currently connected, supported and used by the Toronto office
- Designed project management documents which led to organized plans and improved collaboration

PROJECTS

Tweetbook   **May 2021**
HTML, CSS, JavaScript, NodeJS, BootStrap, NeDB
- Web application that allows registered users to post, like, and dislike tweets.
- Programmed REST API using NodeJS and stored user information and tweets in NeDB in-memory database
- Stored and verified passwords as salted hashes, implemented session based authentication, protected cookies from attacks with cookie flags, and validated user inputs on the front and back end

Handwritten Digit Recognition   **April 2021**
C
- Developed program that uses k-nearest-neighbour (kNN) machine learning algorithm to classify handwritten digits
- Decreased runtime by a factor of 'X' by dividing the work amongst 'X' child processes; utilized pipes for communication between parent and child processes

Password Safe   **January 2020**
Python, MySQL
- Program that enables users to store, retrieve, and delete passwords in MySQL database
- SQL queries using Python MySQL Connector