

Gavin Gosling

289-930-5316 | [email](#) | [linkedin](#) | [github](#) | [personal-website](#)

EDUCATION

Ontario Tech University

Oshawa, ON

Bachelor of Science in Computer Science (Honours), Specialization in Data Science

Sept. 2016 – April 2020

- GPA: 3.3 — Dean's List: 2018 Fall, 2019 Winter — President's List: 2019 Fall, 2020 Winter

EXPERIENCE

Graduate Teaching Assistant

Aug 2020 – December 2020

Ontario Tech University

Oshawa, ON

- * Taught Analysis and Design of Algorithms. Evaluated and supplied knowledge on search, sort, graph, tree, string and flow algorithms. Elaborated on methodologies like Divide and Conquer, Greedy and Dynamic algorithms
- * Coached Introduction to Computer Science. Established a base on object-oriented programming paradigms, *nix operating systems, finite-state automata, networking, databases and AI.

Software Developer

May 2019 – April 2020

Ontario Tech University

Oshawa, ON

- * Created a VR apparatus in Unity C# enhanced the speed of learning instruments by 25% in comparison to conventional methods.
- * Applied HCI principles to magnify UX by following usability, accessibility and design heuristics lead to 20% increase in user satisfaction.
- * Employed the BNO055 Arduino for capturing the velocity, orientation, acceleration and position of the instrument which allowed for greater immersion and expanded the interest of the product by 30%.

Undergraduate Teaching Assistant

Jan 2019 – April 2020

Ontario Tech University

Oshawa, ON

- * Directed Digital Media, a course on the development and theory of audio and graphics including topics sampling, storage and file structures, reproduction, and processing.
- * Instructed Software Systems Development, a course on the concepts and implementation of coding standards, software testing and maintenance, build tools, version control, multithreading, GUIs and socket programming.
- * Provided sufficient feedback, academic support and mentorship to undergraduate students at Science Cafe which is a weekly help session for students in Science, Engineering and Information Technology for over 10,000 students.

PROJECTS

RepositoryViewer | *Github API, Javascript, React, Semantic UI, Git, Chart.js*

DEPLOYMENT

- * Gathered commit, repository and user data via REST requests using the Github REST library using ES6 Promises and input validation.
- * Parsed REST data for each user and converted to JSON to be used for Charting and tabling. Interactivity using functional components and React hooks.

PassChecker | *React, Javascript, Semantic UI, zxcvbn, React-Icons*

DEPLOYMENT

- * Constructed a component-based React application which provided help to many users on how to improve their password.
- * Juxtaposed expectations versus reality by showing password comparisons with respect to entropy, charsets and hash tables.

TECHNICAL SKILLS

Languages: Java, Python, C#, SQL (PostgreSQL, MySQL, MongoDB), JavaScript, HTML/CSS

Frameworks: React, Node.js, Express, Flask, JUnit, Material-UI, Semantic-UI, Bootstrap

Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Jira, Gradle

Libraries: Github REST, Google Maps, Google Charts, Styled-Components, Redux, Google Analytics, Socket.io, AWS, Chart.js, Moment, FontAwesome