

# Derek Hon

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🌐 Website

## Education

- 2021–Present **Brock University**, *M.Sc, Computer Science, Computational Intelligence.*  
2016–2020 **Brock University**, *B.Sc, Computer Science Co-op Honours.*  
First Class Standing

## Awards

- 2021 **Dean of Graduate Studies Entrance Scholarship**, *Brock University.*  
2021 **Brian Helstrom Computer Science Scholarship**, *Brock University.*  
2020 **Deans Honour List - Year Four**, *Brock University.*  
2019 **Deans Honour List - Year Three**, *Brock University.*  
2017 **Deans Honour List - Year One**, *Brock University.*

## Technical Skills

- Coding & Designing Java, Bash, JS, Python, C++, SCSS, PHP, Batch  
Programming Skills Neural Networks, Genetic Algorithms, Multi-threading, Socket Programming(TCP/IP)  
Framework Genetic Programming (ECJ), Android Studio  
Operating System Windows, Linux  
Other Git, JIRA

## Work Experience

- January–December 2021 **Help Desk TA**, BROCK UNIVERSITY, St. Catharines, ON.  
Provide aid to students during the hours of the Help Desk. Aid includes assignment clarification, providing tips on how to proceed and how to fix bugs within their code without directly providing the answer.
- May–August 2021 **Course Coordinator and TA**, BROCK UNIVERSITY, St. Catharines, ON.  
Handle all inquiries during the course in the place of the professor as a course coordinator. As a TA, grading assignments and tests, as well as providing help and clarification regarding assignments or lecture information.
- October 2020–April 2021 **Marker/Grader**, BROCK UNIVERSITY, St. Catharines, ON.  
Graded assignments, and exams, along with giving feedback for two different courses from October 2020–December 2020 and January 2021–April 2021.
- January–August 2019 **Full Stack Developer Intern**, TEJO (MIRRABEL INC.), Toronto, ON.  
Re-coded the product's back-end and front-end. Updated sign up process, up-selling feature, and bug fixed existing features. Created scripts to improve work efficiency for the front-end utilizing SCSS and CSS using SFTPs to the server and bash scripts as access.

- March 2019 **Freelance Developer**, DRONEHUB, Toronto, ON.  
Bug fixed the front end React problems the company had provided. These problems included improper references to React objects as well as some other simple JS errors.
- January–April 2018 **Software Developer Intern**, HUBDOC, Toronto, ON.  
Developed scripts which would gather and parse numerous financial documents. Added features to the intranet, specifically graph generation as well as filters for visualization on the progress.

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## Other Projects

- January 2021 **ECJ 27 Map-Elites (Prototype)**.  
Working to implement a Map-Elites search into the genetic programming framework of ECJ where version 27 is the most recent. Once implementation is completed and is confirmed to be in a working condition it will be submitted to ECJ to try and be used as an "official" library.
- May 2019 **Receipt Expense Calculator(Prototype)**.  
Developed a mobile application to scan receipts using the camera or importing using the user's gallery. It would store the picture in a database as well as calculate the expense from month to day and year to day based off of the receipts. If the OCR is incorrect the user would have an option to input the options by hand after the scan completed.

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## Coursework

- Fall/Winter 2020 **Artificial Neural Networks**, *Brock University*.
- Fall/Winter 2018 **Mobile Computing**, *Brock University*.

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## Other Experience

- September 2021–April 2022 **Graduate Student Representative**, *Brock Computer Science Department*.  
Attend departmental meetings to give insight on the students when making decisions.
- May 2020–January 2021 **President**, *Brock Photography Club*.  
Created and presented a budget to the student union to acquire funding for the club. Performed risk management when organizing the events.
- May 2019–April 2020 **Vice-President**, *Brock Photography Club*.  
Assisted the president with risk management and budget creation. Advertised the club during the orientation week of the university.