Oliver Clark

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EDUCATION

- **McGill University**   Montreal, QC, Canada
  Faculty of Engineering, Bachelor of Software Engineering (BSE)   *2015-2020*
- **Relevant Coursework**

  - **Computer & Software Engineering** : Algorithms & Data Structures, Algorithm Design, Applied Machine Learning, Artificial Intelligence, Distributed Systems, Computer Organization, Database Systems, Intro to Software Eng., Model-Based Programming, Operating Systems, Parallel Computing, Realistic Image Synthesis, Signals & Networks, Software Engineering Practice, Software Delivery, Software Validation
  - **Mathematics** : Discrete Math, Calculus III, Linear Algebra, ODEs for Engineers, Probability & Stats for Engineers

EXPERIENCE

- **Gorilla Group**   Montreal, QC, Canada
  Backend Software Developer   *July 2020 -*

  - Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

- **The MITRE Corporation**   Bedford, MA
  Cyber Security Intern   *May 2018 - August 2019*

  - Identified potential vulnerabilities in a simulated avionics environment before proposing mitigation techniques to the team through documentation and presentation
  - Developed prototype Git infrastructure to allow fast code search and fine-grained access control on secure files for an internal project
  - Performed security based code evaluations on internal and open-source applications using tools such as Fortify, Klocwork, and Semmle
  - Created a continuous integration & deployment pipeline to be used in development of an internal Python project

PUBLICATIONS

- D. Abric, <u>O. E. Clark</u>, M. Caminiti, K. Gallaba, and S. McIntosh , "Can Duplicate Questions on Stack Overflow Benefit the Software Development Community?", In *Proceedings of the 16th International Conference on Mining Software Repositories (MSR), Mining challenge,* pp. 230–234, May 2019.

PROJECTS

- **Viking Chess AI**   Artificial Intelligence - *Winter 2018*

  - Developed a Java game playing agent to play Viking Chess utilizing a unique variation of a mini-max algorithm
  - Game agent competed in a round robin style tournament against 300+ classmates. Agent performed in the top 15% of all players.

- **Distributed Reservation System**   Distributed Systems - *Fall 2018*

  - Distributed a Java reservation system across several servers by using a middleware based tiered architecture
  - Fully implemented persistent memory, failure handling, 2-phase commit, and 2-phase locking

- **Full Stack Web Application**   Database Systems - *Winter 2018*

  - Developed an online grocery store web application using Angular 2, Flask, and PostgreSQL
  - Primary contributor for the backend (database) component. Optimized queries for faster content delivery and designed database structure to meet the applications requirements
  - Worked in a four person team using Git version control and GitHub issues as a primary method of project management

Programming Languages & Technologies

- **Languages** : Java, Python, C/C++, JavaScript, HTML/CSS

- **Technologies** : Git, JUnit, Maven/Gradle/CMake, TravisCI, Docker, Vue.js, Node.js, MongoDB, PostgreSQL