Oliver Clark

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Experience

- **Cox Automotive Inc.** Burlington, VT
  Software Engineer I *April 2021 –*
- **Gorilla Group** Montreal, QC, Canada
  Backend Software Engineer *July 2020 – April 2021*
  - Supporting production of multiple large enterprise e-commerce web applications (**SAP Hybris**, **Java Spring**) by fixing bugs and implementing new features
  - Communicating regularly with several clients to understand their specific needs and assist them in managing their site

- **The MITRE Corporation** Bedford, MA
  Cyber Security Intern *May 2018 – August 2019*
  - Designed a continuous integration & deployment pipeline for an internal **Python** project using **GitHub Actions**
  - Built a command line tool used to interact with remote **Git** repositories with custom access control and advanced file search functionality

Education

- **McGill University** Montreal, QC, Canada
  Faculty of Engineering, Bachelor of Software Engineering (BSE) *Aug. 2015 – Dec. 2019*

Publications

- D. Abric, O. E. Clark, 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

- **Blueberry Hill Outdoor Center website** : *available in production at https://blueberryhilltrails.com*
  - Designed and built a **JavaScript** single page web application using **Vue.js**, and automated for client content management with **Git** and **GitHub Actions**
  - Implemented a custom **Python** backend using **AWS Lambda** to perform COVID-19 contact tracing
- **Viking Chess AI** : *summary report available at https://oliverclark.org*
  - Implemented a **Java** game playing agent using a unique implementation of a minimax algorthim that performed in the top 15% of a 300+ person class
- **Distributed Reservation System** : *source code available on GitHub at https://tinyurl.com/y5ven8lu*
  - Distributed a **Java** reservation system across several servers by using a middleware based tiered architecture including transactional management, persistent memory, 2-phase commit, failure handling, and 2-phase locking
- **Grocer-Easy** : *simple web application providing basic e-commerce functionality for a grocery store*
  - Full stack app consisting of a **Python** backend (**Flask**), a **PostgreSQL** database, and an **Angular 2** frontend

Programming Languages & Technologies

- **Languages** : Java, Python, JavaScript, C/C++
- **Technologies** : Git, JUnit, Django, Flask, Ant/Maven/Gradle/CMake, Docker, Vue.js, Node.js, MongoDB, PostgreSQL, SAP Hybris