

CHARLIE WANG

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<https://github.com/gibstick>
<https://charliewang.io>

SKILLS

Languages

C, C++, Clojure, Python,

Racket (Scheme), Bash,

Java, JavaScript, SQL

Technologies

React, Qt (PySide2),

PostgreSQL, Jenkins, make,

CMake, Bazel, Prometheus

Other

LaTeX, git, Linux (Debian,

Ubuntu, Fedora, CentOS)

OTHER EXPERIENCE

Computer Science Club

University of Waterloo

- Headed the Systems Committee (2019) and performed systems administration (2016-2019) for all club computing
- Maintained shared LAMP web hosting and email infrastructure, among other projects

INTERESTS

Guitar and piano

PC gaming and building

EDUCATION

2014-2019

Bachelor of Computer Science (with distinction), University of Waterloo

WORK EXPERIENCE

Intermediate Software Developer | Kira Systems | Toronto, ON

Sept 2019–Current, Jan–Apr 2017 (intern), Sept–Dec 2017 (intern)

Machine learning contract analysis software for lawyers

[Clojure, ClojureScript, React, C, C++, PostgreSQL]

- Productize machine learning (ML) techniques for training models to answer questions about legal documents by integrating new ML services
- Provide accessible expertise in ML to product and design teams
- Improved code health by fixing memory errors in ML code and security issues in web application (2017)

Software Developer | SideFX Software | Toronto, ON

Sept-Dec, 2018

Houdini (software) and procedural tools for 3D animation and effects

[Python 2.7, Qt]

- Rewrote key UI component in Qt to address stability and maintenance issues
- Overhauled test framework to expand unit and integration test coverage
- Managed third-party integrations for new Houdini feature

Software Developer Intern | Google | Kitchener, ON

May-Aug, 2018

Experiments Framework for Google Display Ads

[C++, Python, Bazel, Prometheus, SQL]

- Designed and implemented monitoring pipeline for experiments framework internals
- Improved usability of experiments framework with dashboards for visibility, documentation to avoid pitfalls, and delivery of alerts for framework misuse

Software Developer | SAP Labs Waterloo | Waterloo, ON

May–Aug 2016

Query optimizer in SAP HANA database

[C++03, C++11, Python, CMake]

- Implemented a framework for improving query performance by tracking and recommending database statistics such as histograms, sketches, and top-k