

Christian Doucette
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[GitHub](#) | [Personal Website](#) | [LinkedIn](#)

EDUCATION

The University of Chicago
BS in Computer Science and BS in Math

Chicago, IL
Expected, June 2022

GPA: 3.89/4.0

Honors: Dean's List for all quarters

Relevant Courses: Algorithms, Database Systems, Parallel Computing, Math of Machine Learning

EXPERIENCE

recreaish

Software Development Intern

Remote
April 2020 – August 2020

- Improved and maintained Ruby on Rails application for startup with 200+ users
- Implemented venue finder tool, emails with Sendgrid API, share feature, and password reset
- Independently developed React Native webview app, achieved approval from App Store and Play Store

Everest Reinsurance

Summer Intern

Liberty Corner, NJ
June 2019 – August 2019

- Built C# windows service to notify by email when analysis finishes
- Reconstructed hail risk model using SQL table and query, end result runs ten times faster

PERSONAL PROJECTS

Tolkein Text | Python (github.com/christian-doucette/tolkein_text)

- Designed and trained neural network language model with LSTM architecture in PyTorch
- Built web interface to generate text based on *The Lord of the Rings* with trained model

Spotify Unlocked | Ruby (github.com/christian-doucette/cnjmusic)

- Built Ruby on Rails web application that displays data and analytics using Spotify API
- Created algorithm for chord recognition from pitch vectors

Code Breaker | Python (github.com/christian-doucette/code_breaker)

- Built encryption functions for Caesar Cipher, Substitution Cipher, and Vigenere Cipher in Flask web application
- Implemented beam search algorithm for breaking substitution cipher with n-gram model, from recent NLP paper

QuoteTabs | Javascript (github.com/christian-doucette/quote_tabs)

- Chrome extension that displays a random computer science or math quote on new tabs
- Pulls quotes from one of three quote APIs

SKILLS AND INTERESTS

Programming Languages:

- Proficient in Python, Ruby, C
- Experience in Javascript, SQL, Rust, Haskell

Libraries and Frameworks: Ruby on Rails, Flask, PyTorch, NumPy, React Native

Other Technologies: Git, Heroku, Azure, PostgreSQL, pgAdmin

Interests: Guitar, running, lifting, science fiction books