

SachaGoldman

Computer Science and Mathematics Student

Location

Toronto, Canada

Languages

♥ Python, Swift,
C, TypeScript

Tools

PyTorch, \LaTeX , Git, Shell

Online

Email

sachagoldman@icloud.com

Website

sachagoldman.com

Github

[SachaGoldman](https://github.com/SachaGoldman)

Awards

New College Council
In-Course Scholarship

William and Shirley Read
Scholarship

VSU District Scholarship

Education

Computer Science and Mathematics University of Toronto
3.85/4.0 GPA Graduating May 2023

Bachelors of Science

Focused on computer science theory and mathematics, especially machine learning and its mathematical underpinnings. Core topics include: machine learning, algorithms, data-structures, linear algebra, group theory, single and multivariable analysis, probability and statistics, and programming.

Experience

SSENSE

Montreal, 2021

Swift SwiftUI UIKit Code Review Tests

Worked as an iOS developer on the mobile team during my 4 month internship. Brought a fresh set of ideas to the team, and advocated for a transition to the composable architecture and introduction of SwiftUI. Acted as a feature lead on a new image zoom experience. Spearheaded a rewrite of the main product page in SwiftUI, with greatly improved gestures.

Altairix

Toronto, 2020

Java SQL Statistical Analysis

Worked as a full stack developer, creating the web and Android based learning platforms for the Arrowsmith Program during my 4 month internship. Created new ways to present student data to teachers, such as, innovative student reports and interactive graphs.

Projects

K2

macOS App

Machine Learning Python Swift SwiftUI

K2 improves upon Apple Photos' built-in facial clustering by scanning your photo library and creating an album of each unique face found. The application uses the Photos API to find the pictures, then runs up python subprocesses which finds faces in each photo using a SVM and vectorizes them using a CNN. These vectors are then clustered using DBSCAN.

Hurdles overcome included code signing python for the Mac App Store, and tuning the model to get the best accuracy.

sachagoldman.com

Website

Vue TypeScript

My personal website serving as a home page for my presence online. This website was created from scratch in Vue and showcases my projects and academics.

Prevailed over the challenge of learning Vue, as it was a completely foreign the framework.

Dots

Web App

JavaScript

Developed a simulation of a number of particles, or dots, that apply forces on each other to form interesting, natural looking structures. Fun and entertaining.