SachaGoldman

Location

Toronto, Canada

US + Canadian Citizen
Willing to Relocate

Languages

♥ Python, Swift,
C, TypeScript

Tools

LaTeX, Git, Shell,
SwiftUI, PyTorch

Online

Email
sachagoldman@icloud.com

Website
sachagoldman.com

Github
SachaGoldman

LinkedIn
Sacha Goldman

Awards

New College Council
In-Course Scholarship

William and Shirley Read
Scholarship

VSB District Scholarship

Education

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

Primarily interested in the applying both mathematics and computer science to machine learning. Core topics include: 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 an ideas to the team, and advocated for a transition to the composable architecture and introduction of SwiftUI. Acted as a feature lead to research and create new features, including a product image zoom experience and better ApplePay integration.

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. Pretty and entertaining.