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EDUCATION

CORNELL UNIVERSITY

BS, COMPUTER SCIENCE

Expected May 2022 | Ithaca, NY College of Engineering Dean's List (3 semesters)
GPA: 4.2

ARLINGTON HIGH SCHOOL

2014 - 2018 | Lagrangeville, NY

COURSEWORK

COMPUTER SCIENCE

Analysis of Algorithms, Object-Oriented Design and Data Structures, Theory of Computing, Functional Programming, Discrete Structures

BUSINESS

Financial and Managerial Accounting, Macroeconomics

MATHEMATICS

Multivariable Calculus, Linear Algebra

TECHNICAL SKILLS

EXTREMELY PROFICIENT WITH

Languages: Swift, Java, OCaml Tools: Xcode, UIKit, Animations with UIKit, Core Data, Core Location, MapKit, MEX, Git, Vim, Ubuntu

HAVE EXPERIENCE WITH

Languages: Objective C, Python, Verilog, HTML, CSS

Tools: Android Studio, Web Development, Nginx, ESXi VMware

ACTIVITES

GLEE CLUB

Striving for musical excellence, the Glee Club fosters a family of tenors and basses through the creation of memorable, musical moments.

PROJECTS / IOS

EATERY FIND EATERIES ON CORNELL'S CAMPUS

Fall 2018 -- Present | iOS Developer / Lead for Eatery

- Helped grow user base by 20 % over past year
- 7.2k Monthly Active Users, 2.5k Daily Active Users
- Architected a large feature: Collegetown Eateries
- Implemented design changes; refactor legacy UI code into more modular components
- Worked on a team with iOS, Android, and backend developers, as well as designers and marketers
- Github: https://github.com/cuappdev/eatery
- Technologies: GraphQL, Swift 4.2, UIKit, Apollo

CELLO MUTE THE TOOLS MUSICIANS NEED, ALL IN ONE

Summer 2016 -- Present | Independent iOS App

- Musicianship App with 37K Downloads
- Designed both the UI and the icons used throughout the app
- Performed market research on high school community.
- Illustrated marketing material used on the App Store.
- Github: https://github.com/whoiswillma/Cello-Mute
- Technologies: AudioKit, UIKit animations

LILOC LIFE BY LOCATION

Summer 2019 | Independent iOS App

- Extensive use of Core Data and related technologies
- Use of custom view controller transitions and animations, both interactive and non-interactive.
- Exploration of location-based APIs.
- Github: https://github.com/whoiswillma/Liloc
- Technologies: Core Data, Core Location, NSFetchedResultsController, Swift 5

PROJECTS/OCAML

COURSE SCHEDULER PLAN A CORNELL SEMESTER

Spring 2019 | CS 3110 Project

- Arranges a schedule from chosen courses
- Uses data from Cornell's API to schedule courses
- Select between a distributed or condensed schedule
- Github: https://github.com/whoiswillma/cs3110-s2019-scheduler

PROJECTS / JAVA

CRITTERWORLD SIMULATING EVOLVING ARTIFICIAL LIFE

Fall 2018 | CS 2112 Project

- Parse arbitrarily complex AST from BNF specifications, apply transformations on the AST
- Coordinate multiple clients over networking API
- Designed a JavaFX GUI application with concurrency to view the state of the UI
- Technologies: Java FX, Java Concurrency and Networking, AST Parsing and Interpretation