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EDUCATION

CORNELL UNIVERSITY

BS, COMPUTER SCIENCE Expected May 2022 | Ithaca, NY College of Engineering Dean's List (3 semesters) GPA: 4.3

ARLINGTON HIGH SCHOOL

2014 - 2018 | Lagrangeville, NY

COURSEWORK

COMPUTER SCIENCE

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

BUSINESS

Financial and Managerial Accounting, Macroeconomics

MATHEMATICS

Linear Algebra. Multivariable Calculus

TECHNICAL SKILLS

EXTREMELY PROFICIENT WITH

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

HAVE EXPERIENCE WITH

Languages: Objective C, Python, Verilog, HTML, CSS
Tools: Android Studio, Web Development,

Nginx, ESXi VMware

ACTIVITES

• Cornell University Glee Club

HOMEBREW

OPEN-SOURCE DEVELOPER TOOL THE MISSING PACKAGE

MANAGER FOR MACOS (OR LINUX)

SUMMER 2020 — PRESENT

- More closely integrate brew and brew cask
- Add license information to 50% (ct. ~2500) packages
- Part of the inaugural MLH Fellowship
- Github: https://github.com/homebrew
- Technologies: Ruby, Rspec, DSLs

XI COMPILER

COMPILER FOR C-LIKE LANGUAGE SPRING 2020, CS 4120 COMPILES A TYPE-CHECKED LALR C-LIKE LANGUAGE INTO X86 ASM WITH OPTIMIZATION

- Dataflow analysis on control flow graph
- Optimizations: Register allocation, copy propagation, dead code elimination, loop unrolling
- Lexing with JFlex, parsing with CUP, type-checking, syntax-directed IR generation, dataflow-based optimization, ASM generation with tiling
- Technologies: Java, JFlex, CUP, JUnit testing, Gradle

EATERY

IOS DEVELOPER & PROJECT MANAGER FIND FOOD AT CORNELL

FALL 2018 — PRESENT

- Helped grow user base by 20 % during 2019
- 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: iOS, Swift 4.2, UIKit, Apollo

CELLO MUTE

INDEPENDENT IOS APP SUMMER 2016

THE TOOLS MUSICIANS NEED, ALL IN ONE

- 39K Downloads
- Designed both the UI and the icons used throughout the app
- Illustrated marketing material used on the App Store.
- Github: https://github.com/whoiswillma/Cello-Mute
- Technologies: AudioKit, UIKit animations