Aaron Anderson

Los Angeles, CA

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Education

University of Chicago	*Chicago, IL*
M.S. IN COMPUTER SCIENCE	*Jun 2019 - Mar 2021*
Northwestern University	*Evanston, IL*
B.S. IN CHEMICAL ENGINEERING	*Sep 2013 - Mar 2017*

Skills

Advanced Swift, Javascript, Java, Python, Go, SQL (Postgresql), Git
Intermediate Objective-C, HTML, CSS, C++, C

Experience

Coursera	*Mountain View, CA*
SENIOR SOFTWARE ENGINEER	*Mar 2024 - Present*
SOFTWARE ENGINEER II	*Mar 2022 - Mar 2024*
SOFTWARE ENGINEER I	*May 2021 - Mar 2022*
SOFTWARE ENGINEERING INTERN	*Sep 2020 - Dec 2020*

- Worked as a member of an iOS team developing and deploying updates for the Coursera iOS application supporting hundreds of thousands of active users
- Developed using Swift using MVVM architecture, also familiar with MVC and VIPER architectures
- Extensive use and knowledge of Swift frameworks and packages including: SwiftUI, UIKit, CoreData, AVKit, SwiftProtobuf
- Deliverables include creating a custom video player, developing the login and course home pages in SwiftUI, and implementing new features such motivation mechanics and integration with Zoom software
- Wrote and maintained unit tests and UI tests using XCTest and Swift Testing, and developed custom UI tests to test accessibility
- Worked closely with Design and Product teams to scope and define new features from a technical perspective
- Mentored multiple members of the team with weekly meetings to help onboard them and answer career-related questions

Amazon	*Seattle, WA*
SENIOR TECHNICAL PRODUCT MANAGER INTERN	*Jun 2020 - Sep 2020*

- Created engineering project proposal of a new payment technology for a brand new, confidential vertical within Amazon
- Worked closely with a cross-functional team including software engineers, UX designers, and business managers to scope solution to customer problems and create technical requirements

Projects

Neural Network Implementation in Go

HTTPS://GITHUB.COM/AARONPANDERSON/GO-NEURAL-NETWORK

Implemented an artificial neural network for classification problems in Go. The model takes as input a csv file of data representing a large number of examples and their corresponding features and outputs the most likely class for each example. The user can change the number of nodes in the hidden layer, as well as activation function, epochs, and learning rate. The model also has a parallel programming implementation to speed up the training time.

PostgreSQL Database Web Application

HTTPS://GITHUB.COM/AARONPANDERSON/DATABASEWEBAPP

Created a web application to access and change a postgreSQL database with multiple relations of > 10,000 entries. A python script that utilizes bottle and pyscopg2 connects to the postgreSQL server and creates a simple web app to read and write some of the data. The web app has functionality including searching, inserting/updating/deleting records, and viewing and inserting related records.