

Savannah Collyer

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EDUCATION

UC SAN DIEGO

BS IN COMP. SCIENCE

Expected Grad June 2022

GPA: 3.7

LINKS

LinkedIn:// [savannah-collyer](#)

COURSEWORK

PROGRAMMING

Introduction to CS and OOP: Java

Basic Data Structures and OOD

Computer Organizations &

Systems Programming

Software Engineering

Programming Languages: Principles

and Paradigms

Advanced Data Structures

THEORY

Introduction to Discrete Mathematics

Mathematics for Algos & Systems

Introduction to Theory of

Computability

Design and Analysis of Algorithms

SKILLS

PROGRAMMING

Java • Python • Kotlin • C • C++ •

JavaScript • Assembly • Haskell • SQL

• HTML • CSS

TOOLS

React Native • Unix • Git

React • MySQL • GDB • Vim •

Docker • Visual Studio • IntelliJ •

Android Studio

CLUBS

TECHNICAL

Comp. Science & Engineering Society

Undergraduate Bioinformatics Club

Women in Computing

Society of Women Engineers

EXPERIENCE

AMERICAN EXPRESS | SOFTWARE ENGINEERING INTERN

July 2020 – Aug 2020 | New York, NY

- Worked as an intern on the American Express mobile app team on the Mobile Card Replacement feature.
- Utilized Kotlin and the Android Framework to implement accessibility such that the feature will be equally accessible to all users.
- Added tracking to the feature in order to provide the Analytics team with the necessary data to improve user experience.

UCSD CSE DEPARTMENT | TUTOR

Jan 2019 – Present | La Jolla, CA

- Tutor for Software Engineering, Data Structures Object Oriented Design, and Software Tools Techniques (CSE 110, 12 15L respectively) with Instructor Gary Gillespie as well as for Advanced Data Structures (CSE 100) with Instructor Niema Moshiri.
- Provide students with targeted assistance in their coursework during office hours. This coursework consists of utilizing data structures to solve theoretical problems and creating web and mobile applications from scratch.

UCSD CSE SPIS | MENTOR

Aug 2019 - Sep 2019 | La Jolla, CA

- Served as a mentor for the CSE department's Summer Program for Incoming Students (SPIS).
- Introduced incoming CS students to Python programming and concepts such as data mining, algorithm design, image processing, and abstraction.
- Guided students in developing web apps projects.

PROJECTS

AUTOGRADER WEBSITE | October 2018 - Present

- Project Manager and Front End Developer of the UCSD CSE department's queuing and automated grading website (autograder.ucsd.edu).
- Lead a team of peers in rewriting our application with newer technologies by migrating to a newer React Axios stack paired with the popular Material UI Framework.

ALMOUNDS APPLICATION | March 2020 - June 2020

- As Project Lead and Developer, created an application for the CCAGA with the goal of digitizing and simplifying their process for stockpiling and shelling almonds.
- Using React Native and React Navigation, created a multi platform dynamic application for the cataloging of almond truckloads and their algorithmic placement.

MAIT – PYTHON & OOP | September 2019 - Present

- Aid in the creation of a Massive Adaptive Interactive Text (MAIT) on Python and OOP.
- Develop and test adaptive Intelligent Tutoring Systems (ITSs) for code challenge autograders on the Stepik platform.