Griffin Newbold

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EDUCATION

Columbia University, BS in Computer Science **Expected Graduation May 2025**

EXPERIENCE

CS@Columbia - Computing in Context and Introduction to Java Teaching Assistant **2022-Present**

- Published Weekly Materials to supplement the professor's lectures
- Held Office Hours several hours a week to assist students with problem sets and course content
- Graded Problem Sets and Exams and aided in instructing over 600 students per academic year

Private CS Tutoring **2018-Present**

- Worked with over a dozen students to enhance their Java and Python skills over the course of a semester
- Notable improvements recorded in students across different settings of at least a third of a letter grade

EXTRACURRICULARS/ACTIVITIES

CodePrentice Columbia Chapter **2021-2022**

- Served as a front-end web developer using React and other technologies to help build the main website
- Improved overall site performance through code optimization

High School Computer Science Club **2019-2021**

- Founded and led a club dedicated to promoting ethical use of programming technologies while serving underprivileged communities and increasing their interest and involvement in Computer Science
- Computer Science courses saw an uptick in student enrollment correlated with club attendance

PROJECTS

DreamJourney **2023**

- Full Stack Project where users could input a description of their dream and using Stable Diffusion API we would generate and store corresponding images
- Used technologies like React, Flask, RestAPI, Stable Diffusion, and Firebase to make the project

Graphical Algorithm Analyzer **2022**

- Desktop Application built in Python that allowed users to upload simple .py files and the output would be a graphical display of runtimes and a prediction of what the runtime of your code was in Big-O Notation
- Libraries like Tkinter, Scipy, Numpy, MatPlotLib, Time and OS were used
- Built as part of a 48 hour hackathon hosted by my university

Handheld Simon Says Game **2021**

- Project for Introductory Engineering course,
- Used Arduino and low level circuitry to make the handheld device, along with C++ for the functionality

Mobile Calculator App **2020**

- Used Kotlin and Android Studio to develop a calculator app that was published to the Google Play Store
- Performs calculations expected of a calculator, including basic arithmetic to the trigonometric functions

SKILLS AND RELEVANT COURSEWORK

Programming Languages: Java/Python (Experienced), C/Kotlin (Intermediate), C++/C# (Beginner)
Technologies: Eclipse, VS Code, React, JavaFX, MySQL, PostgreSQL, Android Studio, GIT
Certificates: Java SE 8 Programmer I 2019 (Oracle Certified Associate)
Relevant Coursework: Data Structures, Databases, Advanced Programming, and Computational Linear Algebra, Advanced Software Engineering (Fall 2023)