Ava Silver

Available: January – August 2022 Pronouns: she/her or they/them GitHub | LinkedIn | Website
Local: Boston, MA | Permanent: Palo Alto, CA | (650) 213-6238 | silver.ava@northeastern.edu

Education:

Northeastern University, Boston, MA — September 2019 – Present
Khoury College of Computer Sciences
Candidate for Bachelor of Science in Computer Science, Expected 2023
GPA/Honors: 3.98/4.00 | Dean's List every semester
Relevant Courses: Web Development | Networks & Distributed Systems | Object Oriented Design | Algorithms | Computer Systems | Theory of Computation

Henry M. Gunn High School, Palo Alto, CA — August 2015 – June 2019
GPA: 3.94/4.00 unweighted
Honors/Awards: Computer Science, Math, and Science Department Awards

Technical Knowledge:

Languages: Python, Java, TypeScript/JavaScript, C, Kotlin, x86 Assembly, HTML, CSS, ACL2s
Systems: Windows, Ubuntu, macOS, Debian 10 Linux
Technologies/IDEs: Git, Visual Studio Code, Bash/Unix, React.js, Android Studio, IntelliJ

Work Experience:

Bose Corporation — January – July 2021
Software Engineer on the Automotive Systems Division
- Developed Android applications for Android Automotive using robust design patterns
- Worked on modifying/extending Android source code to add functionality to the Android system to allow for the implementation of custom audio effects and to communicate between the Application and Native layers

Khoury College of Computer Science at Northeastern University — September 2020 – Present
Head TA and Tutor for Fundamentals of Computer Science 1 Accelerated
TA for Algorithms and Data
- As Head TA, led lab sections and conducted office hours to support and teach students and answer questions
- Supervised grading done by other TAs, graded exams to provide useful feedback to the students
- Provide other feedback and support to Professor(s)

Lockheed Martin Solar and Astrophysics Lab, Palo Alto, CA, *Intern* — July 2018 – August 2019
- Performed independent scientific data analysis and research on solar image and numerical data
- Developed and submitted two abstracts that were accepted for presentation

iD Tech Camps, Palo Alto, CA, *Instructor* — June – August 2020
- Prepared personalized lesson plans for up to 15 students per week, ages 9-13

Santa Clara Swim Club, Palo Alto, CA, *Head Lifeguard* — May 2017 – May 2019 & Summer 2020

Christian Musical Theater, Palo Alto, CA, *Music Teacher & Counselor* — Summers 2015-2019

Personal Projects:

Personal Website – *React, TypeScript, CSS, HTML, Node.js, Visual Studio Code* — June 2021
- Developed website using React Elements and Hooks to separate content into individual pages
- Implemented website logic/design using TypeScript to provide more stability and readability over JavaScript

Dog Identifier – *Kotlin, Android Studio, TensorFlow Lite Machine Learning, XML* — August – October 2020
- Developed an Android app to identify dogs in photos uploaded by users
- Implemented TensorFlow Lite Machine Learning models for image processing
- Designed UI using XML allowing for quick, intuitive navigation between tabs

Nush Unix Shell – *C, Visual Studio Code, Concurrent Processes* — October 2020
- Built a Unix shell for processing and executing commands, redirecting input and output, and instantiating and using variables
- Implemented functionality using concurrent processes, syntax trees, and hashmaps

EasyAnimator – *Java, Intellij IDEA, Java Swing library* — June 2020
- Built a GUI application that displays and allows for the editing of animated shapes using the Java Swing library for the Object Oriented Design class

Interests/Other Skills: Eagle Scout Awarded 2019, Chinese Language (AP level Mandarin), Northeastern (NU) Chamber Choir, NU Pep Band, Piano/Guitar