Ava Silver

(she/her or they/them)
Local: Boston, MA | Permanent: Palo Alto, CA | (650) 213-6238 | Silver.J@northeastern.edu | GitHub | Linkedin

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
Relevant Courses: Object Oriented Design | Algorithms | Computer Systems | Math of Data Models | Logic and Computation | Accelerated Fundamentals of Comp. Sci. 1 & 2 | Discrete Structures | Digital Design and Computer Organization

Henry M. Gunn High School, Palo Alto, CA — August 2015 – June 2019
Relevant Courses: Functional and Object Oriented Programming | Advanced Placement Computer Science
GPA: 3.94/4.00 unweighted

Technical Knowledge:

Languages: Java, C, C++, Kotlin, Python, Racket/Scheme, x86 Assembly, XML, ACL2s
Systems: Windows, macOS, Debian 10 Linux
Software/IDEs: Git, IntelliJ, Visual Studio Code, Vim, Unix Command Line, Android Studio, Eclipse

Projects:

Dog Identifier – *Kotlin, XML, Android Studio, TensorFlow Lite Machine Learning* — August 2020 – Present
- Developed an Android app that identifies 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

Maze Generator/Solver – *Java, Eclipse, Kruskal's algorithm, Graphs* — April 2020
- Developed an application in Java that uses graph algorithms to generate, display, and solve mazes

Work Experience:

Bose Corporation — January 2021 – Present
Software Engineer on the Automotive Systems Division
- Develop Android applications for Android Automotive using robust design patterns
- Worked on 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 – December 2020
Tutor for Fundamentals of Computer Science 1 Accelerated and Algorithms & Data — July – August 2021
- Organized lab sections and conduct office hours to support and teach students and answer questions
- Graded exams and assignments to provide useful feedback to the students

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

iD Tech Camps, Palo Alto, CA — June – August 2020
Instructor
- Prepared personalized lesson plans for up to 15 students per week, ages 9-13
- Corresponded with students' parents each week during family check-in meetings

Interests/Other Skills: Chinese, Northeastern (NU) Pep Band, NU Chamber Choir, Guitar, NU Survivor, Photography