**Education**

**HARVARD UNIVERSITY** Cambridge, MA

S.B. Electrical Engineering. GPA 3.8 May 2021

Relevant Coursework: Systems Programming, Operating Systems, Feedback and Control, Signals and Systems,

Probability, Discrete Math for CS, Linear Algebra, Multivariable Calculus, Calculus-Based Physics

**ISTITUTO LEONE XIII** Milan, Italy

High School diploma in Classics. Final grade 100/100 July 2017

Main Coursework: Ancient Greek, Latin, History, Philosophy, Literature

**VASHON ISLAND HIGH SCHOOL** Seattle Area, WA

Exchange Student. GPA: 4.0 Sept. 2015 – July 2016

SAT: 1520 (790M, 730V). SAT Subject Tests: 800 (Math II), 800 (Physics), 800 (Latin)

**Work and Research Experience**

**HARVARD SCHOOL OF ENGINEERING AND APPLIED SCIENCES** Cambridge, MA

**Teaching Fellow**  Aug. – Dec. 2018

* Teaching Assistant for Harvard’s Introductory Computer Science course, CS50.
* Lead weekly 1h15min-sections to a group of ~20 students, hold office hours, grade problem sets and exams
* Contributed to hosting & organizing course-wide events such as the CS50 Puzzle Day, the CS50 Hackathon and CS50 Fair, where students showcase their final projects.

**POLITECNICO DI MILANO** Milan, Italy

**Research Assistant**  May – Aug. 2018

* Research assistant with Prof. Andrea Bonarini of the Artificial Intelligence and Robotics Lab (AirLab)
* Worked on a research project that used state-of-the-art machine learning techniques to improve tracking of human people by a moving robot.
* Wrote Python implementation of an overlapping mixture of Gaussian Processes to generate human motion profiles from potential leg detections from sensors onboard a moving robot.

**Select Projects**

**Chickadee**  Jan – May 2019

* Designed and implemented multi-core kernel as term-time project for CS 161 at Harvard
* Managed and debugged large codebase in C++ with synchronization
* Implemented virtual memory, buddy allocator, processes, threads, wait queues, file system, disk support, buffer cache, signals and system calls.

**Let’s Meet!**  Nov. 2017 – Dec. 2018

* iOS app that enables users to instantly find people with whom they can study, eat lunch and do other activities – all without worrying about bothering people who don’t happen to be available to study or hang out at the same time as you
* Designed app in XCode, wrote code in Swift, set up a MySQL online database to maintain the user data

**SGAST (Series Graphing and Solving Tool)**  Sept. – Dec. 2016

* Java app that helps high school and college students learn infinite series.
* Designed app in Eclipse, wrote code in Java.

**Technical Skills**

**Programming Languages:** C, C++, Python, Java, Mathematica, Matlab, PHP, Swift, LaTeX

**Techniques:** Data Structures, Algorithms, Debugging, Operating Systems Design, Eclipse, NetBeans, Pycharm, CLion, MySQL, Git