Gabriele Oliaro

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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