Lordique Solomon Fok

Software Engineer, Designer, Educator

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Education

Massachusetts Institute of Technology: *Cambridge, MA*   *June 2018*
- ➢ Candidate for Bachelor's Degree in 6-2, Electrical Engineering, Computer Science
- ➢ GPA: 4.9/5.0
- ➢ Selected Coursework: Computer Vision 6.819, Artificial Intelligence 6.034, Principles of Software Design 6.005, Microcontroller Project Laboratory 6.115, Differential Equations 18.03, Math for Computer Science 6.042, Computational Structures 6.004, Signals and Systems 6.003

Technical Work Experience

Ultimate Software: *Weston, FL*   *May 2016-Aug 2016*
Project Leader
- ➢ Led a team of 3 in developing a platform that automated simultaneous, lead-and-follow manual tests on multiple mobile devices (across different manufacturers and operating systems)
- ➢ Used XCode, JavaScript, Android Studio, Mongo, and Java
- ➢ Performed company-wide demos in front of 250+ employees

MIT Space Propulsion Lab: *Cambridge, MA*   *April 2015-Dec 2015*
Researcher
- ➢ Designed algorithms to automatically generate computer aided designs (CAD) based on varying design parameters, improving process time by 500%
- ➢ Performed experiments to determine how to use aerogels as porous glues in ion beam thrusters
- ➢ Wrote programs to maximize laser efficiency and improve process efficiency, cutting costs by 20%

MIT Media Lab: *Cambridge, MA*   *Dec 2014-May 2015*
Researcher
- ➢ Engineered and machined a modular, Bluetooth-enabled, electro-mechanical bicycle lock
- ➢ Designed a network application to interface between a smartphone and bicycle lock
- ➢ Performed user testing for the lock and analyzed user feedback

Educational Experience

DynaMIT: *Cambridge, MA*   *April 2014-Present*
Director
- ➢ Coordinate board members and mentors in a free STEM outreach program for local underprivileged middle schoolers
- ➢ Create a hands-on curriculum to engage over 80 students in mechanical engineering, E&M, biology, forensics, coding, and more, with a mentor-student ratio of 1:2.

Global Teaching Labs: *Paju, South Korea*   *January 2016*
Teacher
- ➢ Planned a 2-week workshop introducing underprivileged Korean high schoolers to EECS
- ➢ Taught students who spoke only basic English advanced topics so that they could build, program, and understand a 4x4 LED cube from scratch
- ➢ Introduced students to additional topics in mechanical engineering, such as CAD, 3D printing, and design with constraints

Skills

- ➢ Coding languages: JavaScript, Node.js, Swift, Python, Java, HTML, CSS, Assembly
- ➢ Software skill sets: CAD (Computer Aided Design), Mongo Databases, Mobile Development, Graphic Design
- ➢ Interests: Running, Sailing, Getting lost intentionally (a.k.a. exploring), Singing