

Siva Loganathan

education

contact

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programming

Java
HTML, CSS
Javascript
Angular.js
MATLAB
Python
L^AT_EX

languages

English Fluent
Malay Fluent

awards

Spring 2014 Deans List

Duke University

B.Sc. in Electrical & Computer Engineering and Computer Science

GPA: 3.675/4.000 **Major GPA:** 3.800/4.000

Relevant Coursework: Data Structure & Algorithms, Software Design, Computer Architecture

HELP Academy

Edexcel International Advanced Levels

A*A*AA with Distinction in Physics and Mathematics

Durham, NC
May, 2017

Kuala Lumpur, Malaysia
July, 2013

projects

inSwitch

Cofounder

- Developed a smart switch that meets the dormitory requirement by being able to mount it on an existing switch instead of needing to replace the switch
- Pioneered a back-end system using Flask (a Python framework) and mySql (allow database support for multiple switches) to allow the switch state to be read and modified based on their id
- Created a front-end client using Angular.JS and Google's Angular Material Library

Durham, NC
November, 2015 - Present

High Altitude Autonomous Glider

System Architecture Co-Leader

- Pioneered and tested a Nichrome release mechanism which is able to disengage the glider from the balloon at an altitude of 60,000 feet and up to a temperature of -60°F
- Devised a short-range recovery circuit for the glider that consists of LED and beepers which interfaces with the glider's main power system to save weight on additional battery packs

Durham, NC
September, 2014 - November, 2014

professional experience

Lava Protocols (Labs Division)

Intern

- Enhanced the feature of the Felda Global Ventures mobile application using the Phonegap Framework by adding push notifications and calendar functions which improved the app rating by more than 10%
- Established a culture of using a version control system (Git) to collaborate and share code between team members instead of emailing the code to each other, thus causing efficiency to increase

Kuala Lumpur, Malaysia
May, 2015 – July, 2015

Duke Computer Science Department

Teaching Assistant for Software Design

- Mentor and guide 5 students in terms of having good software design which promotes modularity and flexibility so that multiple teams can collaborate together to add code
- Evaluated the performance of these 5 students based on their improvement on the code that they wrote throughout the semester

Durham, NC
August, 2015 - Present

Duke Mathematics Department

Teaching Assistant

- Collaborated with Prof. Rann Bar-On to coordinate over 40 hours of weekly sessions where over 60 students in Calculus 1 and Calculus 2 benefited
- Covered over 12 chapters in laboratory calculus and on average improved the grade and understanding of the students that attended the help room sessions

Durham, NC
January, 2014 - Present

leadership & experience

Duke Housing, Dining and Residence Life

Resident Assistant

- Created a positive living environment designed to promote interaction of social networks between a community of 29 residents, often resolving conflict
- Developed student centered hall programs where over 90% of the residents attended to enhance their social, education and understanding of the community.
- Awarded Most Valuable Player at the RA Training Year 2015-2016 by votes from other RAs

Durham, NC
January, 2015 - Present