Luis Abrogar

Valley Stream, NY

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Education		
	Stony Brook University, Stony Brook NY	**Aug 2017 – Dec 2021**

Stony Brook University, Stony Brook NY   **Aug 2017 – Dec 2021**
Bachelor of Engineering – Computer Engineering
Coursework:
- **Programming:** *Data Structures & Algorithms, Mobile Cloud Computing, Real-Time OS, Computer Vision, Machine Learning, Networks, Network Security*
- **Engineering:** *Embedded Systems, Computer Architecture, Digital Systems, Signals & Systems, Circuits, Logic Design*

Projects

Personal Website: luisabrogar.github.io/luis-abrogar (additional details and projects)

Cycling Companion App
- Developed an Android app that tracks a rider's live ride data and saves it in the cloud
- Incorporated Android Sensors to calculate speed and slope
- Used Google Maps API to trace the ride's live path
- Stored data in Google Firebase, allowing the data and ride history to be reviewed
- Utilized: *Java, Android Studio, Google Maps API, Google Firebase*

Survey Data Text Mining
- Designed a program that extracts data from surveys and converts it into a readable format that displays frequently raised topics
- Incorporated Azure Text Analytics to perform sentiment analysis
- Used NLTK to group similar key words into topics
- Utilized: *Python, Azure, NLTK*

8-Segment LED Digital Clock
- Assembled a fully functional digital clock with basic timekeeping functions, 12hr/24hr format, alarm, USB charging port, and LED binary second counter
- Programmed the microcontroller in x86 Assembly using Atmel Studio
- Utilized: *Oscilloscope, Multimeter, Solder, Assembly, Atmel Studio*

Mersive Solstice-Google Calendar Integration
- Designed a program that pulls a classroom's live scheduling information and pushes it into the room's Mersive Solstice Pod – allowing the room's availability to be displayed
- Used the Google Calendar API to access scheduling data
- Utilized: *Python, Google Calendar API*

Skills

- **Languages:** *Java, Python, C/C++, SQL*
- **Web Development:** *HTML, CSS, JavaScript, jQuery, Broswersync*
- **HDL:** *VHDL, VERILOG*
- **IDEs/Editors:** *Visual Studio/Code, Android Studio, Eclipse, Spyder, Active-HDL*
- **OS:** *Windows, Linux (Ubuntu)*
- **Other:** Git/GitHub, Microsoft Office, Adobe Illustrator

Work Experience

Stony Brook University DoIT, Stony Brook NY   **Apr 2019 – Jan 2021**
Media Systems Engineering Assistant

- Performed weekly maintenance of campus-wide media systems and technology
- Reported and resolved support requests
- Collaborated with engineering teams to install new systems