Luis Abrogar

Valley Stream, NY

Email: luis.abrogar@gmail.com
Phone: (917) 940-1919
LinkedIn: linkedin.com/in/luis-abrogar
Website: luisabrogar.github.io/luis-abrogar

Education

Stony Brook University
Aug. 2017 – Dec. 2021

Bachelor of Engineering – Computer Engineering
Stony Brook, NY

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

Cycling Companion App

Used: *Java, Android Studio, XML, Google Maps API, Google Firebase*

- Developed an Android app that tracks a rider's live data (ie. distance) and saves it in the cloud
- Incorporated Android Sensors to calculate physical measurements such as speed and slope
- Utilized the Google Maps API to trace the ride's live path in progress
- Stored data in Google Firebase, allowing the data to be reviewed in the ride history

Portfolio Website (link in header)

Used: *HTML, CSS, JavaScript, Microsoft Visual Studio Code, BrowserSync, GitHub*

- Designed a basic, dark-themed portfolio site containing more project information using HTML and CSS
- Implemented JavaScript to utilize buttons and scroll wheel for page navigation
- Used Visual Studio Code to write code and debug, BrowserSync to verify design, and GitHub to host the site

Survey Data Text Miner

Used: *Python, Microsoft Azure, NLTK library, Microsoft Visual Studio*

- Created a program that extracts data from surveys and converts it into a condensed, readable format
- Incorporated Azure Text Analytics to perform sentiment analysis
- Implemented a grouping algorithm to put similar key words into topics using NLTK

Mersive Solstice-Google Calendar Integration

Used: *Python, Google Calendar API, Spyder*

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

8-Segment LED Digital Clock

Used: *x86 Assembly, Atmel Studio, Oscilloscope, Multimeter, Solder*

- Assembled a digital clock with basic timekeeping functions, alarm, and LED binary second counter
- Programmed clock's microcontroller in x86 Assembly using Atmel Studio

Work Experience

Stony Brook University Division of IT
Apr. 2019 – Jan.2021

Media Systems Engineering Assistant
Stony Brook, NY

- Performed weekly maintenance of campus-wide media systems and technology
- Reported and resolved support requests
- Collaborated with engineering teams on larger projects and installed new systems

Skills

- **Languages:** *Java, Python, HTML, CSS, JavaScript, VHDL/VERILOG, SQL, C/C++*
- **IDE:** *Eclipse, Android Studio, Microsoft Visual Studio and VS Code, Spyder IDE*
- **Other:** *Git/GitHub, Microsoft Office(Word, Excel, PowerPoint, Publisher)*, *Adobe Illustrator*