□ (979) 492-6285 | Some roger.fesca@gmail.com | Anhttp://rochosc.github.io/ | Dochosc | 36506756/roger | Dochosc | Tochosc | Bochosc | Dochosc | Bochosc |

Summary.

Computer scientist and software engineering enthusiast with over 8 years of programming experience, 2 years of research experience, and 1 year of industry experience. Worked extensively with Android/Java, Python, JS, MATLAB, Objective-c, SQL, and MongoDB. Fluent in English and Spanish.

Work Experience

Texas A&M University

College Station, Texas, USA

RESEARCH ASSISTANT

Aug. 2018 - PRESENT

- Research on applied Machine Learning on data collected from wearable devices.
- · Android app development for smartphones and wearable platforms for improved data collection and annotation.
- Lead author on "A Human-centered Wearable Sensing Platform with Intelligent Automated Data Annotation Capabilities", accepted at IoTDI 2019

Texas A&M University College Station, Texas, USA

GRADER

Jan. 2017 - May 2017

- Grader for upper-level Operating Systems course at Texas A&M University.
- Responsible for grading quizzes, midterms, and programming assignments of 60 students.

Kwan Tecnologia Merida, Yucatan, Mexico

SOFTWARE ENGINEER & DEVOPS

- Sep. 2015 Aug. 2016
- · Worked on innovation group using MEAN stack for feature development and Mocha for unit testing.
- Responsible of continuous integration using Jenkins and database management.
- · Responsible of AWS instances creation and management for diverse team's needs.

DEVOPS

- Remote DevOps at Agralogics located at CA, USA.
- Fixed and restored the daily automatic deployment process of new AWS instances after being broken for 4 months, saving developer's time.
- Maintained the web app, existing scripts, and deployed new app instances for specific team needs.
- Worked mainly with bash/python/ruby scripts, Git, Jenkins, and Docker containers.

Projects

IOS RESEARCHKIT CONTRIBUTION

Added a camera-based PPG capture module to Apple's open-source ResearchKit library written in Objective-C to help users to get heart rate
estimates using their phone.

FINAL PROJECT FOR AN INTELLIGENT USER INTERFACES COURSE

- Created an Android app and a back-end service using Flask, a Python based framework which determined email's stressfulness based on sentiment analysis.
- Adapted UI dynamically to show users which emails they should reply to based on current stress levels measured via a wearable sensor.

FINAL PROJECT FOR A PATTERN ANALYSIS COURSE

- · Created a dynamic regression model on MATLAB based on accelerometer information for heart rate prediction when exercising.
- The aim was to reduce energy consumption from smartwatches when using PPG by turning off the sensor and using the prediction model instead.

BIOFEEDBACK USING ROBOTS AND WEARABLE SENSORS

- Built a relaxation app for Android that controlled a robot whose movements were influenced by the user's breathing obtained through a Bluetooth wearable sensor.
- The app taught the users to breath at proper rhythm to reduce their stress levels.

FINAL PROJECT FOR A COMPUTERS AND NEW MEDIA COURSE

- Created a web app using HTML5, JS, Bootstrap, and Flask.
- The website had the goal of helping users to record video testimonials through a user friendly interface and to share them with other users.

Education

Texas A&M University

College Station, Texas, USA

Expected May 2019

- M.S. IN COMPUTER SCIENCE, GPA 3.75/4.0

 Research assistantship with stipend 1 year.
- Scholarship from the federal government of Mexico, through the National Council of Science and Technology (CONACYT) 2 years.

Autonomous University of Yucatan

• Valedictorian, Computer Science, class of 2015.

Merida, Yucatan, Mexico

August 2015

- B.S. IN COMPUTER SCIENCE, GPA 3.64/4.0
- INTO internship by the Mexican Chamber of Electronics, Telecommunications and Information Technologies (CANIETI) to study abroad for 3 months at Texas A&M.