Francisco Burgos Collazo

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EDUCATION

2016   **Bachelor of Science: Electrical Engineering**
Polytechnic University of Puerto Rico – San Juan, PR
3.25 GPA

EXPERIENCE

Full Stack Developer @ Optivon Inc. 01/2016 – 04/2017
- Did research about VOIP technology to implement a webRTC gateway that resulted in € 125,000 company savings.
- Implemented a SIP client and backend for an industry grade telephony solution.
- Researched and implemented an RFC 3261 compliant SIP proxy server whit push notification capabilities that put the company ahead of the competition.
- Used Node.js to integrate CRM capabilities with the existing telephony solution for inmediate lead, contact and account insertion right after call completion.
- Managed AWS ec2 instances as well as elastic beanstalk instances to provide the hosting environment for the business application as well as maintaining the already existing applications.
- Worked with the team to implement the dialer for the different states of the call using AngularJS and angular-material framework for a very modern and clean UI.
- Research and implemented Agile's SCRUM methodologies with the team to fasten the SDLC.

3D Printer Instructor @ RepRap PR 05/2015 – 11/2015
- Prepared class modules for teaching students from 6th grade to 9th grade the importance and use of 3D printing.
- Worked with mechanical engineers to also teach students about CAD modeling.
- Printed various designs that the students themselves created.
- Did research along with the CEO of RepRap PR for a more energy efficient model of the PRUSA 3D printer he was using.

Circuit and Programming Tutor @ PolytechnicUniversity of Puerto Rico 08/2014 – 05/2015
- Provided students with the necessary strategies to solve complex circuit analysis problems.
- In charge of three different tutoring sessions for courses: Circuits I, Circuits II, and Programming fundamentals.
- Helped the students get a deeper knowledge about various programming fundamentals and algorithm analysis.
- Provided quiz-like tests for to gain an insight about the current knowledge of each student which resulted in a more productive and effective tutoring session.

SKILLS AND SIDE PROJECTS

- Worked with development tools and platforms such as: *Git, Bitbucket, Mercurial, and AWS (ec2, eb, and IoT).*
- Profficient with web development languages and frameworks such as *Javascipt, HTML, CSS, bootstrap, jquery, PHP, AngularJS, Django, Flask, Node.js, Websockets, Ajax, Restful APIs, among others.*
- Skilled in SQL and no-SQL databases such as *SQLite, MySQL, Firebase , and mLab.*
- Experience with OOP and scripting with languages such as *C++, C, Python, Matlab, Shell and Bash.*
- Competent in many protrocols and transports such as *UDP, TCP, TLS, HTTP, SIP, SIPWS, MQTT, and AMQP.*
- Familiar with tools like *Wireshark, nmap, tcdump, Pspice, Ltspice, Matlab, Scilab, Logisim, vissim, and Rxlogix.*
- Experienced in development boards such as *Arduino, Beaglebone Black, MSP430, CC3200, and Raspberry Pi.*
- Knowledgeable in various Linux distros such as *Debian, Kali, Ubuntu,Ubuntu Core, and Ångström.*