Diego Raigoza

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EDUCATION

Santa Clara University, Santa Clara, CA   Graduated: December 2019
Bachelor of Science in Computer Science, Minor in Mathematics

Related Coursework: Object-Oriented Programming, Logic Design, Data Structures, Computer Networks, Operating Systems, Probability and Statistics, Cryptography, Database Systems, Computer Security

SKILLS

Languages: C, C++, Java, Python, SQL, SQLite, Spanish
Operating Systems: Windows, Linux
Applications: Visual Studio, PyCharm, EmBitz, Eclipse
Additional: Team player, organized, hard worker, problem solver, and excellent communicator

PROJECTS

Packet Sniffer: Worked with a team of 3 to create a web-based application that captured packets on a given network and parsed them into a JSON file. The information was then intelligently presented to provide a real time activity log of network activity which contained information such as the types of packets that were being transmitted with the perspective source and destination MAC and IP addresses.

Kendall's Bees: Collaborated with a team of 3 to build a continuous DC solar power source for an in-hive bee camera located on top of the Redwood City Public Library. A charge controller and buck converter were utilized to safeguard the raspberry pi, which was connected to the solar panel. The raspberry pi was connected to a computer inside the library to create a live stream of the hive via a secure socket shell for security, and virtual network computing to allow for remote controlling of the raspberry pi.

Mouse Tracker: Worked with a team of 4 to create a Disney Theme Park mobile iOS application, with a model-view-controller model, to assist users in planning and enjoying their day at any Disney park. Created and tested an SQLite database via a precompiled binary Windows IDE. Populated the database via a CSV data file which was generated by a C web scrapping script. The user interface was created in swift in an Xcode IDE.

EXPERIENCE

KidzToPros, Python Boot Camp Lead Instructor, Cupertino Union School District, CA   January 2020 – Present
- Teach the fundamentals of computer science and python to middle school students in the Cupertino Union School District to introduce them to the computer science field.
- Guide students through the competition of extensive programming projects.

Santa Clara University, IoT Research, Santa Clara, CA   May 2019 – December 2019
- Implemented the mirai botnet in a Debian environment to infect IoT devices running Linux based OS and analyzed network packets to potentially create a safeguard system against DDoS attacks.

Santa Clara University, Business Services Specialist, Santa Clara, CA   June 2019 – September 2019
- Supported staff within the Offices of Housing and Residence Life as well as students, parents, and faculty with Santa Clara University housing policies.
- Maintained accurate records, completed computer data entry tasks, communicated confidently and comfortably, and collaborated with other housing residence life staff.

CloudCoin, Software Engineer, Chico, CA   June 2018 – September 2018
- Converted a Software Development Kit (SDK) from Python to C#. The SDK was responsible for allowing clients to manage their CloudBank accounts.

Chico Men's Rugby, Website Developer, Chico, CA   June 2018 – September 2018
- Redesigned the team's website based on a list of requested changes which was created through numerous meetings with the team's leadership. Worked in Wordpress.

ACTIVITIES

Volunteer Coach: Special Olympics, February 2019 – December 2019
Underclassmen Representative/Member: SCU's Maker Club, September 2016 – December 2019
Member: Association of Computing Machinery, Society of Hispanic Professional Engineers, Intramural Softball Team, Intramural Basketball Team, Men's Softball Team