Ruben Marin

Software Engineer · Full Stack Developer

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Experience

CSULB Foundation — *Long Beach, CA*

Research Assistant - JavaScript Developer — *May. 2017 - Jan. 2018*

- Worked under Dr.Birgit Penzenstadler on Resilient Smart Garden project.
- Developed backend to automated smart garden using NodeJS and Express.
- Developed database to collect data over 3 months for analysis using MongoDB.
- Created API endpoints that received HTTP requests from embedded system
- Worked on building iOS application that interfaced with the hardware/database
- Deployed on AWS using EC2 services
- Contributed to research paper that was recently published in sustainability journal

HSI - STEM — *Long Beach, CA*

Research Assistant - PHP Developer — *Jun. 2015 - Oct. 2016*

- Worked under Dr. Mehrdad Aliasgari on CensorBusters project(Internet Circumvention Tool)
- Programmed a PHP script that automated email responses when user sends email to specific address
- Required use of regular expressions to differentiate email headers(new/existing user).
- Email script handles HTTP requests to backend server and generated a JSON web token to be sent back to user automatically

Education

California State University, Long Beach — *Long Beach, CA*

B.S. in Computer Science — *Aug. 2015 - May. 2018*

Graduated May 2018

Skills

Programming Languages:

JavaScript • Python • Java • PHP • Ruby • Swift • C++ • LaTeX

Web Technologies:

React • NodeJS • Express • HTML • CSS • Bootstrap • MEAN • MERN • Rails • LAMP

Databases:

MongoDB • LevelDB • MySQL • PostgreSQL

Miscellaneous:

Linux System Administration • Amazon Web Services(AWS) • Web Servers • SSL • Networks

Notable Projects

End to End Encrypted Chat

Developed an iOS app that enabled users to securely chat with one another. The backend was developed using NodeJS/Express, deployed using AWS, and used SSL via LetsEncrypt. Developed API endpoints that allowed user to register/login and send/receive messages to and from the database(built using LevelDB). Frontend used basic RSA encryption/decryption and required use of JWT.

Publications

Penzenstadler B, Khakurel J, Plojo CJ, Sanchez M, **Marin R** , Tran L. "Resilient Smart Gardens—Exploration of a Blueprint." Sustainability. 2018; 10(8):2654.