

# Nick Rodriguez

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, BERKELEY

Bachelor of Science in **Electrical Engineering and Computer Science**

Berkeley, CA

August 2013 – May 2017

**Course Highlights:** Data Structures & Algorithms, Structure of Computer Programs, Digital Circuits

## WORK EXPERIENCE

### CLUMIO

*System Test Engineer*

Santa Clara, CA

August 2020 - Present

- Led testing effort for features from **test planning** to developing test code to creating **Jenkins** pipelines for tests
- Verified new onboarding workflow which will be exposed publicly via AWS marketplace
- Expanded existing **AWS** libraries to add VPC and DynamoDB functionality to our testing code
- Developed **RESTful** clients in **Python** to interact with our Zendesk and Salesforce environments

### INTERTEX ELECTRONICS

*Website Developer*

San Antonio, TX

January 2019 - August 2020

- Converted 5,000+ items stored in CSV files from AbleCommerce to Magento 2 database format leveraging **Python** and the **Pandas** Data Analysis library
- Extracted and updated GTIN, SKUs, and pricing for all products from manufacturer catalog CSV files using **Pandas**
- Crawled competitor sites leveraging **Requests** and **Beautiful Soup** to extract pricing information on 100's of competitive items
- **Extended** native Luma template to enhance user experience on front end of site

### CAVIUM

*Hardware Engineer*

San Jose, CA

July 2017 - August 2018

- **Automated** performance testing procedure by introducing variable parameters to **UVM** test bench
- **Randomized** user configurations in test bench to ensure all 1,500+ unique combinations of variables met the specified line rate
- Defined **Functional Coverage** bins to monitor pass/fail status for each of 1,500+ cases
- Parsed timing information using **Python** scripts from generated log files
- Collaborated with designers and project leads on agreed upon performance testing **metrics**
- Visually **displayed** data for analysis during weekly meetings uncovering flaws in the testing procedure

### MICROELECTRONICS LAB

*Instructor Assistant*

Berkeley, CA

January 2015 – May 2015

- Collaborated with course instructor to write lab documents and procedures for upcoming assignments
- Ensured lab was stocked with required components for students
- Led groups of 10-15 students through circuit fundamentals with **white board sessions** in course lab section
- Achieved 100% lab completion in my section for each student

## NOTABLE PROJECTS

### RISC-V PROCESSOR DESIGN

*Team Leader*

Berkeley, CA

March 2016 - May 2016

- Led a team of two through the initial 3 stage paper design to loading the design on a **Xilinx Virtex-5** FPGA
- Scaled testing from **unit** to **integration** to **system** testing as the design progressed
- Collaborated and agreed on interfaces between modules to ease **testing** and **integration**

### NODE.JS PERSONAL WEBSITE

*Individual Creator*

<https://www.nickjrodriguez.com>

March 2019 - September 2019

- Created responsive frontend using raw **HTML5**, **CSS**, & **JavaScript** with **Edge** Template Engine
- Leveraged **Node.js** to create a functional backend that supports registering new users, creating new posts, and search
- Modularized design using **MVC** architecture
- Deployed using **Heroku** and leveraged **AWS S3** cloud storage for uploaded files/pictures

## SKILLS

**LANGUAGES:** Python, C, JavaScript, Java, SystemVerilog

**TOOLS & FRAMEWORKS:** AWS, Git, Jenkins, JIRA, Pytest, HTTP, LaTeX

**INTERESTS:** Boxing, Volunteering at the Animal Defense League, Growing Plants, Practicing Español, Listening to live music