

Carlos Reyes Stoneham

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Education

Duke University

B.S. in Computer Science, Minor in Chemistry.

Durham, NC

May 2015

Experience

Intel Corporation

2014

Software Engineering Intern

- Member of an embedded devices engineering team focused on running models to simulate and analyze processor operation for Industrial and Autonomous Driving use cases. Participated in weekly team meetings, code review, planning sessions, and software releases.
- Writing, testing, deploying, and maintaining robust and flexible C++ and Python error injection libraries for functional safety testing on Simics models of next generation Intel server chips.

NuoDB

2013

Software Engineering Intern

- Maintaining the Ruby and ActiveRecord NuoDB database drivers.
- Writing sample code for interaction with NuoDB in C++, Java, C#, Ruby and Python, and PHP.
- Writing shell scripts to test Python, Ruby and ActiveRecord NuoDB drivers on Travis-CI.
- Writing a Cocoa wrapped Python application to automate the initialization of Amazon Web Services CloudFormation instances using the Boto API.

Duke University, Department of Electrical and Computer Engineering

2013

Research Assistant, Implementing Recursion in OpenCL

- Writing recursive OpenCL benchmarks to collect and analyze performance results on a benchmark written to ease writing recursive code on graphics cards.

The Jackson Laboratory

2012

Software Engineering Intern

- Integrating computational research software into Galaxy (online biomedical research platform).
- Modifying Python command-line application for use as a web-based application.
- Writing XML to create a GUI interface command-line driven applications written in Python.

The University of Massachusetts Amherst, The Goessmann Laboratory

2011

Analytical Chemistry Research Assistant

- Designing and performing experiments to determine and optimize accuracy of arsenic readings.
 - Quantitative analysis of the effect of lead arsenate and cacodylic acid on arsenic levels in soil.
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Skills

- C/C++, JavaScript, Ruby, Java, OpenCL, Python, CSS/HTML
 - Node.js, Express.js, Git, Shell Scripting, MongoDB, NuoDB, RethinkDB, MySQL
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Other

- Teaching Assistant: Software Implementation (CS 308) Fall 2014
 - Co-President of the Society of Professional Hispanic Engineers 2012-2013
 - Duke Innovation Co-Lab Software Developer 2013-2014
 - Technical Consultant at the Office of Information Technology 2013-2014
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Projects

Omega Nu Website

2014

- Web application for the Duke Omega Nu computer science organization (www.omeganu.us). Implemented using Node.js, Express.js, Twitter Bootstrap, jQuery, and MongoDB.

Node.js New York Times API Wrapper

2014

- A simple, robust npm module that wraps the New York Times API. Available on npm at: <https://www.npmjs.org/package/nyt>

RISC Game

2014

- Really Interesting Strategic Conquest game written in C++ utilizing SFGUI and SFML for client GUIs and Google Protocol Buffers for networked gameplay.