





RAYMOND JACOBSON

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Education

Rensselaer Polytechnic Institute

Bachelor of Science, Dual Major Computer Science & Computer and Systems Engineering • GPA 3.95/4.00

Troy, NY
Expected May 2016

Nanyang Technological University

Bachelor of Science, School of Computer Engineering • GPA 5.00/5.00

Singapore, SG
Spring 2015

Sidwell Friends School

Lemelson-MIT InvenTeams, FIRST Robotics, MATE-ROV Robotics, Varsity Tennis

Washington, DC
1998-2012

Experience

MongoDB, Inc.

Software Engineering Intern

- Added IEEE 754 decimal data type support to MongoDB kernel, BSON spec, Golang driver, and MongoDB aggregation framework

New York, NY
May 2015 – August 2015

Rensselaer Computer Science Department

Research Assistant

- Assisted in research of type-based taint analysis tools for identifying privacy leaks in Google Play Store applications

Troy, NY
September 2014 – December 2014

Boeing Satellite Development Center

Software Engineering Intern

- Supported WGS program in validation of satellite anomaly control procedures testing code and satellite scenario creation
- Introduced satellite simulator laboratory monitoring application to aggregate server & VM data for irregularity detection

El Segundo, CA
May 2014 – August 2014

Rensselaer Center for Automation Technologies and Systems (CATS)

Electrical & Software Research Assistant

- Designed the electrical system, control scheme, and MATLAB interface for a high-throughput automated system for mixing and deployment of micro-liter scale ECM proteins solutions into arrays of wells

Troy, NY
September 2013 – May 2014

U.S. News & World Report

Software Developer Intern

- Developed robust, in house web application framework using Pylons-Pyramid, PostgreSQL, and OracleDB

Washington, DC
May 2013 – August 2013

Front-end Web Developer

- Built web pages and JS plugins for ai.usnews.com, store, and rankings & improved SVN repo distribution Python code

June 2011 – July 2011

Ideation & Rapid Prototyping

Hack Upstate IV (October 2014)

1st Place, BitTorrent & WebRTC take on distributed Internet & web

MHacks IV (September 2014)

Firebase Best Real-Time Hack, SMS-driven community art murals

Salesforce Summer of Hacks (August 2014)

1st Place, Company in-house kickstarter for circulating new ideas

Santa Monica Hack for a Cause (August 2014)

Mailjet API Prize, SMS outreach tool for Enough Project non-profit

Riverside County Hackathon (July 2014)

2nd Place & ESRI ArcGIS API Prize, Citizen's tool for waste mgmt

NY State Health Data Code@Thon (December 2013)

1st Place, SMS based, pseudo-AI personal health coach

Hack Upstate II (October 2013)

1st Place & Iron.io API Prize, iOS, client-side two-factor auth system

Hack Upstate I (March 2013)

2nd Place, Disposable, account-less cloud file collaboration service

Tech Stack

Languages & Frameworks

C++, Go, Java, Python, SQL, MongoDB, Rails, Flask, Node.js, Angular, HTML, CSS, Stylus

Software & CAD

Adobe CS6, Sketch, MATLAB, Mathematica, Ableton, SketchUp, Siemens NX 8.0, PSpice, EAGLE CAD

Selected Coursework

CS: Programming Languages, Database Systems, Cryptography & Net. Sec., Machine Learning (Python), Data Mining, NLP, Distributed Systems

CE: Digital Electronics, Analog Circuits, Signals & Systems, Comp Architecture, Microprocessor Systems (C)

Core: Engr. Graphics & CAD (NX 8.0), Creativity, Innovation & Entrepreneurship, Visual Communication (Adobe CS6)

Activities & Leadership

Rensselaer Center for Open Source Software (Developer)

Lambda Chi Alpha Fraternity (VP External, Philanthropy Chair)

Rensselaer TALKS Lecture Series (Founder, renselaertalks.com)

Grand Marshal Week Committee (PR & Comm. Chair, Secretary)

RPI ABADÁ Capoeira (Secretary, Webmaster)

Skiing, Tennis, Intramural Hockey, Piano, Guitar, Songwriting & Music Production

Distinctions

Rensselaer Dean's List (6 of 6 semesters eligible)

White Key Junior Leadership Honor Society

TBII Engineering Honor Society

HKN ECE Honor Society, Corresponding Secretary

YITE Computer & Information Honor Society

Undergraduate Research Symposium (Spring 2013, 2014)

Rensselaer Leadership Award (2012)