

# DYLAN WOOD

WEB ENGINEER

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## Profile

Curious and professional engineer who is excited to solve complex problems with the most practical web-based tools available.

## Skills

### Back End

Architect and maintain HIPAA-compliant Node.js server-side webservices, databases, and the infrastructure that hosts them

### Front End

Design and build intuitive, responsive and maintainable user interfaces in MVC frameworks like Ampersand and Angular

### Leadership

Encourage and facilitate quality work and team growth through education, discussion and example

## Technical

Linux / OS X / Windows

vim

svn / git / GitHub

Ansible / Chef

JavaScript

CSS3

HTML5

Phonegap / Cordova

Node.js:[+Hapi +Express]

SQL:[+Oracle +MySQL +Postgres]

noSQL:[+Redis +Memcached]

PHP

## Experience

### The Mind Research Network Neuroinformatics Group (coins.mrn.org)

Senior Software Engineer  
Jan 2010-Present

Co-Design, implement, maintain and extend medical research applications (COINS) used at 7 institutions. Included refactoring legacy code to use RESTful webservices and MVC "thick client" to deliver a rich UX. Successful products include:

RESTful webservices for medical research data collection, management and export implemented in Node.js

Web-based graphical, exploratory query builder for exploring and requesting complex multimodal data

Browser-based questionnaire building and offline data collection system using HTML5 and IndexedDB

Automatic provisioning of virtual machines in dev, staging and production environments with Ansible.

### Dr. William Oberkampf

Matlab Programming Consultant  
Jan 2009-Jan 2010

Wrote, tested and modified scripts / functions for verification and validation examples used in the textbook "Verification and Validation in Scientific Computing"

### The University Of New Mexico

Student Technical Expert  
Jun 2008-Jan 2010

Research assistant in the fields of Micro Electro-Mechanical Systems (MEMS). Projects included:

Designed and fabricated digital endoscope assembly for patent submission

Fabricated and analyzed micro structures and associated residual stresses

Designed and implemented 3in1 photolithography mask for micro-actuator fabrication

### The University Of New Mexico

Computer Science Teaching Assistant  
Aug 2007 - Jan 2010

Created and instructed lab exercises for 17 students per week. Communicated with students to resolve conceptual misunderstandings.

## Education

The University Of New Mexico,  
Albuquerque NM

Bachelor of Science in Mechanical Engineering  
**3.56/4.00 GPA** Aug 2005-Dec 2009