Elliott Capek
Resume

Work Experience

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2013 - Present

Computational Physics Project
Roundy Computational Physics Lab

I am working on a biological simulation of a motor protein using principles of physics and chemistry. Skills gained:
- Applying dynamics equations to simulating proteins
- Creating computational simulations using physics principles
- Programming experience in C/++, Python, LaTeX

2013 - 2014

Biophysics Lab Assistantship
Qiu Biophysics Lab

I worked in a biochemistry lab purifying proteins and preparing them for microscopy experiments. Tasks I did in lab:
- Growing proteins in an *E. coli* medium
- Conducting biochemistry lab procedures: protein purification, gel electropheresis and preparing buffers
- Microscopy experiments using a Total Internal Reflection microscope

2011 - Present

NPO Web Development
I design and maintain websites for a group of related nonprofit organizations, most notably Sisters of the Community. Skills learned on-job:
- Deploying custom sites using the WordPress CMS
- Customizing WordPress themes in PHP
- Managing hosting and domain name services for sites
- Working with my employer to create stylistic and usable site designs

2013-2014

Web Development
Adword Associates LLC

I worked for a web design company where I:
- Rapidly developed WordPress sites based on our client's specifications
- Managed hosting and DNS services for these websites

2012 - 2013

MATE Robotics Competition, Technical Lead
Willamette University

I was the technical lead for a college robotics team. Tasks I accomplished on the team:
- Designed mechanical and electrical systems for an underwater ROV
- Programmed rudimentary communication between different ROV systems
- Organized a 1400$ team budget

Education

2013 – Present	**Bachelor's Degree (transfer)**
	Oregon State University
	Physics
	Biochemistry
	Computer Science (minor)
	GPA: 3.72
2012 – 2013	**Bachelor's Degree**
	Willamette University
	GPA: 3.73

Technical Skills

Basic	PHP, MATLAB, Javascript, GIMP, Mathematica, MySQL, Drupal, Robotics, Arduino, Soldering
Proficient	C/++, Python, LaTeX, Linux, git, WordPress, HTML/CSS

Communication experience

2014	2014 Northwest Section APS Meeting Poster Session presentation
2014	OSU Undergraduate Research Symposium 10-minute talk

Other experience

2014	ICFP Programming Contest
2012 - 2013	Willamette University electronics lab assistant
2008 - 2012	FIRST Robotics Competition

Github

github.com/elliotc12