

Madison (Lee) Kang

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EDUCATION

Carnegie Mellon University

Bachelor of Science in Computer Science

Minor: Biological Sciences

Cumulative GPA: 3.47

Pittsburgh, PA

Dec 2013

Philips Academy Andover

High School Diploma

Andover, MA

May 2009

SELECTED COURSEWORK

Web Application Development

Foundations of Software Engineering

Parallel Computer Architecture and Programming

Algorithm Design and Analysis

Computational Methods for Biological Modeling and Simulation

TECHNICAL SKILLS

Computer Languages: Java, C, Javascript, PHP, Perl, SML, HTML, CSS

Applications: Unix/Linux, Git, Apache, Eclipse, LaTeX, Matlab

ACADEMIC PROJECTS

Grumbler: A social media web application project

Chess Lab: Implemented a chess bot based on the minimax algorithm (rank = top 5%)

Malloc Lab: Implemented the C dynamic memory allocation function (top 5%)

WORK EXPERIENCE

Spinmedia, Inc.

Los Angeles, CA

Software Engineering Intern

June – August 2013

- Worked across the full stack: Linux, Apache, MySQL, PHP, Javascript, HTML/CSS
- Migrated a site to the Laravel 4 PHP MVC framework and maintained it
- Worked with Wordpress creating custom theme and plugin
- Used Google Realtime API to create a plugin that increased traffic by 2%
- Implemented click tracking and A/B testing

Wallingford Victorian Bed and Breakfast

Wallingford, CT

Web Designer

June – August 2012

- Self-taught web design
- Built website using HTML, CSS, and Javascript

RESEARCH EXPERIENCE

Schwartz Lab, Carnegie Mellon University

Research Assistant

January – May 2012

- Analyzed crystallin family of proteins to determine factors of protein solubility
- Built a database of proteins
- Wrote a program to analyze MSAs and construct a BLOSUM matrix
- Used programs to apply various phylogenetic methods