**Alec K. Hoey**

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**OBJECTIVE**

To obtain a software engineering or web programming internship for Summer 2012.

**EDUCATION**

**University of California, Berkeley – College of Engineering**

Fall 2010 – Spring 2014

B.S. Electrical Engineering and Computer Science

* **GPA: 3.63**

**EMPLOYMENT**

**Magoosh – Berkeley, CA (http://magoosh.com)**

May 2011 – March 2012

**Ruby on Rails Developer**

* Developed for test preparation startup on Ruby on Rails 3.1.x
* Built features start to finish, back to front, from admin metrics on millions of answers to jQuery on-screen calculator
* Algorithmic challenges like grading different question types and subdomain-dependent content
* Wrote deployment scripts to start, install a stack, restore databases, and deploy code on Amazon EC2

**UC Berkeley Robot Learning Lab – Berkeley, CA (http://cs188.org)**

February 2012

**Rails Developer and Researcher**

* Working with top UC Berkeley professors Pieter Abbeel and Dawn Song to build a scalable education web-platform
* Integrated OpenTok API to allow students to use video chat to discuss online quizzes
* Implementing features on Ruby on Rails like client-side math parsing, private chat rooms and interactive video quizzes

**Computer Science Tutor – Berkeley, CA**

July 2011 – August 2011

* Privately tutored data structures, time and space complexity, and algorithms to Berkeley undergrads

**PROJECTS**

**Bentohäus (http://bentohaus.com)**

August 2011 – Present

* A self-built, self-designed website built on Rails 3.1.0 designed for shared-living organization and productivity
* Built an authentication system, admin dashboard, news feed behavior, and calendars from the ground up
* Built an iCal equivalent day view of calendars with extensive use of Ruby ranges

**Pagerank Mapreduce (https://github.com/alechoey/Matrix-Multiply)**

Fall 2011

* Used Pagerank to rank and sort web page graphs and basketball teams on Amazon EC2 Hadoop cloud.

**COURSEWORK**

Introduction to Artificial Intelligence

Foundations of Computer Graphics

Discrete Math and Probability Theory

Great Ideas in Computer Architecture

Introduction to Microelectronic Circuits

Data Structures and Programming Methodology

Introduction to Structure and Interpretation of Computer Programs

**ACTIVITIES**

**Pioneers in Engineering (http://pioneers.berkeley.edu)**

**Information Technology Lead**

September 2011 – January 2012

* Lead a team building a django application for team registration, forums, and internal tools
* Manage a small team of developers in an educational and cooperative environment

**Eta Kappa Nu, EECS Honors Society (http://hkn.eecs.berkeley.edu)**

January 2011 – January 2012

**Computing Services Member**

* Build and maintain Rails app to keep HKN up and running
* Manage IRC, mail servers, calendars, exam archives, and internal apps for elections

**Tau Beta Pi, Engineering Honors Society**

January 2011 – Present

**SKILLS AND INTERESTS**

* **Technology** Strong command of Ruby, Python, C/C++, Java, Javascript/jQuery, Mac OS, Windows, UNIX
* **Interests** Soccer, bowling, cooking, music, movies, web development, bentohäus, hacking