**Alec K. Hoey**

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**OBJECTIVE**

To obtain an internship or research with an emphasis on machine learning for Summer 2013.

**EDUCATION**

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

Fall 2010 – Spring 2014

B.S. Electrical Engineering and Computer Science

* **GPA: 3.5**

**EMPLOYMENT**

**Groupon – Palo Alto, CA (http://groupon.com)**

June 2012 – August 2012

**Backend Engineer (SmartDeals/Relevance Team)**

* Developed large-scale, backend data analytics workflow to measure experiment effectiveness
* Compare control and experimental rankings and output into digestible form for data warehouse
* Ownership of nontrivial problem—accounting for business rules, cache changes, and cluster scheduling
* Built using Hadoop, Java, and Ruby

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

May 2011 – March 2012

**Ruby on Rails Developer**

* Developed Ruby on Rails app for test preparation startup
* Modeled new question types, each with custom grading logic and grading options
* Worked full-stack: from deployment scripts and server config to front-end jQuery
* Built jQuery calculator from scratch—custom evaluation rules to match GRE calculator

**UC Berkeley Education Platform – Berkeley, CA (http://cs188.org)**

February 2012

**Rails Developer**

* Worked with Berkeley professors Pieter Abbeel and Dawn Song on precursor to edX platform
* Integrated OpenTok API to allow students to use video chat to discuss online quizzes during 18-hr hackathon
* Modeled chat sessions to see who is online, available to talk at a given time

**PROJECTS**

**WSWE (http://whereshouldweeat.org)**

May 2012 – Present

* A restaurant recommendation engine built on top of the Yelp! API
* Collaborative filtering machine learning algorithm to recommend restaurants based on personal preferences
* Built multiple table inheritance, complex list and recommendation models with Ruby on Rails
* Very modular recommendation design with advanced Ruby metaprogramming

**CalTeachables**

September 2012 –December 2012

* A lesson plan repository for nonprofit educational organization
* Solr full-text search, multiple permission roles, full-featured admin dashboard, wiki markup, and user ratings

**Bentohäus (http://bentohaus.com)**

August 2011 – May 2012

* A self-built, self-designed website built on Rails designed for shared-living organization and productivity
* Built an authentication system, admin dashboard, news feed behavior, and calendars from the ground up
* Built bill-splitting with dynamic forms, interactive pie charts with AJAX loaded data, and Solr full-text search

**COURSEWORK**

Introduction to Machine Learning (189)

Operating Systems and System Programming (162)

Efficient Algorithms and Intractable Problems (170)

Introduction to Database Systems (186)

Software Engineering (169)

Introduction to Communication Networks (122)

Introduction to Artificial Intelligence (188)

Foundations of Computer Graphics (184)

Discrete Math and Probability Theory (70)

Great Ideas in Computer Architecture (61C)

Data Structures and Programming Methodology (61B)

Intro to Struct. and Interpret. of Computer Programs (61A)

**SKILLS AND INTERESTS**

* **Technology** Strong command of Ruby, Python, C/C++, Java, Javascript/jQuery
* **Interests** Soccer, basketball, bowling, cooking, music, movies, learning new stuff