

Alex Palmer

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OBJECTIVE To secure a software engineering position at an industry leading company focused on driving innovation in consumer based solutions where I can learn and contribute to the company's success.

EDUCATION **High Point University**, High Point, NC
B.S., **Computer Science**, May 2013
B.A., **Mathematics**, May 2013
Minor, **Physics**, May 2013
Magna Cum Laude · Departmental Honors · Deans List

COMPUTER SKILLS *Languages & Software:* C, C++, Go, Python, LaTeX, PHP, Django, Dart, JavaScript, AJAX, jQuery, HTML, SQL.
Notable Classes: High Performance Computing (CUDA), Advanced Data Structures, Networking and Theory of Computation.
Operating Systems: Linux, OS X and Windows.

EXPERIENCE **dunnhumbyUSA, Innovation Lab** **May 2013-Present**
Software Developer

- Initiated contact with Mobeam, leading to a strategic partnership.
- Wrote a proof of concept health and wellness application at an innovation event that was presented at a dunnhumby CEO summit in Europe and presented to the CEO of a retail client partner in California.
- Responsible for Innovation Lab system, RESTful API and Android Development.
- Applied a heuristic to K-Means++ for GPS clustering by latitude, longitude and time. This approach correctly identified home and work addresses for all Innovation Lab members to help us capture rest of market spend.
- Responsible for building recommender systems to help our clients grow basket size and sales.
- Innovation Lab was tasked with solving a new NLP related business problem valued in excess of \$500 million per year. The classifier that I built has currently been tested on several data sets with a recall of 0.89, precision of 0.87, accuracy of 0.85 and true negative of 0.80.

High Point University, Academic Services **August 2010-May 2013**
Supplemental Instructor

- Provide classroom support and one-on-one tutoring with office hours to assist math and computer science students.

High Point University, Office of Information Technology **October 2011-December 2011**
Professional Intern

- First student developer.
- Responsible for developing iPhone, iPad and Web Applications.

High Point University, University Center **April 2011-December 2011**
Facility Manager

- Maintained and ensured security of various facilities on-campus using sound judgment and careful discretion.

ERF Marketing **May 2011-
October 2011**
Senior Web Developer

- Responsible for the development and maintenance of server-side applications used for both internal and client services ranging from digital employee contract agreements to a survey engine.
- Responsible for a company wide shift from PHP to Python.

High Point University, Department of English **August 2010-
October 2011**
Writing Fellow

- One of five faculty chosen Writing Fellows.
- Provide tutoring to students in Composition 1101, 1102 and 1103.

Engauge Digital, Atlanta, GA **June 2010-
August 2010**
Digital Innovation Group Intern

- Worked on rewriting the Ruth's Chris iPhone App in Objective-C.
- Created a scraper to duplicate Ruth's Chris Steakhouse's restaurant location database to reduce testing load on production server.

**EXTRA-
CURRICULAR
ACTIVITIES**

Copresented at MAA Southeastern conference and won first-place for session (2013)
Copresented at BigSURS (Big South Undergraduate Research Symposium) (2013)
Google I/O Attendee (2012, 2013)
Project Glass Explorer
Member of The National Society of Leadership and Success (2011-Present)
President, Math, Actuarial and Computer Science Club (2010-2011)
Member of High Point University's Computer Programming Team which competed in ACM and local competitions. (2009-2013)
Programming team placed third in regional competition. (Spring 2010)
Recipient of President and Alumni Scholarships. (2009-2013)
Awarded High Academic Achievement Grant. (2009-2013)

**PERSONAL
PROJECTS**

Artificial Neural Network Handwritten Number Reader

- Created an Artificial Neural Network that correctly classifies 97.34% of the handwritten numbers in the MNIST test set.

Sentiment Classifier

- Wrote a Binary Multinomial Naïve Bayes sentiment classifier that has an initial accuracy, using a small corpus of movie reviews, of 83.4% measured using 10-fold cross-validation.

Spelling Corrector

- Created a spelling corrector using the Stupid Backoff Language Model to not only correct misspelled words, but also the wrong form of a word.

Foursquare Bot

- Gained the attention of Foursquare CEO Dennis Crowley after writing a bot that used the Twitter Search API to locate people worldwide who had broken Foursquare's rules, add them to a database and then steal their mayorships.

**COMMUNITY
SERVICE**

Member of the High Point University Volunteer Center.
Mission Trips to Costa Rica (2008 & 2009)

INTERESTS

Travel, adventure, wine enthusiast, biking, driving, kiteboarding, hiking, water sports, scuba diving and photography.