patrickyoon

software engineer

about

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me@patyoon.com
http://patyoon.com
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github://patyoon

languages

bilingual Korean/English

skills

JavaScript
(jQuery, node.js),
Python, C,
Haskell, Git, SVN,
CSS3 & HTML5

education

2012–2013 **University of Pennsylvania** Philadelphia PA, USA

- M.S.E. in Computer Science
- Graduated with master's thesis

2008–2012 **University of Pennsylvania** Philadelphia PA, USA

- B.S.E. in Computer Science, magna cum laude
- Eta Kappa Ku, Vice President; Delta Tau Delta

2005–2008 **Korea Science Academy** Busan

- High School

experience

08 2013- **TellApart Inc.** Software Engineer

- Software Engineer starting in August 2013.

Spring 13' **University of Pennsylvania** CIS 505 Teaching Assistant

- Taught graduate-level introduction to distributed systems course.

05–08 12' **Microsoft Bing** Software Development Engineering Intern

- Built a classifier for deciding query intent in Bing Local Search Team that outperforms the existing classifier by 8.5% in precision and recall on a sample query set.
- Experimented with ways of mining training data and semi-supervised approaches to label them and compared end-to-end metrics.

03–10 12' **Emerald Exam (formerly Essaysafe)** Co-founder

- Developed a secure in-class testing application that allows students to take in-class exams using their laptops on Chrome Browser and allows professors to grade and give feedbacks to exams saved in cloud storage.
- Developed native Windows and OS X applications that prevents and reports cheating activities to the professor.
- Selected as top 20 teams in AngelHack Boston in March 2012.

Spring 12' **University of Pennsylvania** CIS 391/521 Teaching Assistant

- Taught upperclassmen/graduate-level intro to Artificial Intelligence course.
- Ran two make up lectures and Wrote four out of ten weekly assignments.
- Set up and managed the server for class final project running Ants AI Challenge.

06–09 11' **Google Inc.** Software Engineering Intern

- Developed a internal framework that periodically updates visualization for various statistics for AdWords advertisement formats.
- Implemented a new Search Ads format in Media Ads team and plugged into Google Web Server.

Fall 11' **University of Pennsylvania** CIS 121 Teaching Assistant

- Taught freshmen/sophomore-level data structures course in Java.
- Responsibility included weekly recitations, writing and grading assignments and exams.

05 10' - 05 11' **Lingustic Data Consortium** Student Programmer

- Improved GUI test tools for machine reading project.
- Developed web version of standalone tool for annotation of English corpora.
- Processed Korean newswire data and published corpus. Greatly improved validity by fixing word segmentation issue.

04-07 09' **The Laboratory for Research on the Structure of Matter** Research Assistant

- Participated in research on reconstruction of Breast Cancer Optical data and MRI image data.
- Built a C++ library from existing Perl codes that process various types of image data.

projects

2011 **DJ Feed** djfeed.com

- Developed an Android application that allows users to request or vote on upcoming songs to influence the playlist at a party. Developed with a team of two people. Users can rate the now playing song to give feedback to DJ, or check the playlist and ratings at other venues.
- DJ's can manage the playlist and view users' votes and feedback on desktop application.
- Won "Biggest Potential award," for application that shows greatest business potential out of 30 total teams.

2011 **Bang Search Engine** patyoon.com/bang

- Developed a distributed, scalable web crawler for a peer-to-peer implementation of a search engine with indexing and ranking with team of four people.
- Analyzed performance varying number of nodes and threads running on a node.

research

2013 **Compositionality of English phrases** Master's Thesis Final Deliverable

- Studied approaches to mine sentiment data from research paper citations in order to determine the opinion toward the cited papers.
- Suggested methods and metrics to make observations about how research papers relate to one another using sentiments toward their content and role in citing papers.
- Generated regression models to make predictions about he future success of a paper based on the current sentiment toward the paper.

2012 **Sentiment Analysis of Citations for Research Papers** Undergraduate Senior Design Project Final Report

- Studied approaches to mine sentiment data from research paper citations in order to determine the opinion toward the cited papers.
- Suggested methods and metrics to make observations about how research papers relate to one another using sentiments toward their content and role in citing papers.
- Generated regression models to make predictions about he future success of a paper based on the current sentiment toward the paper.

awards

2012 **Google Lime Scholarship for Students with Disabilities**

- $10,000 awarded based on the strength of candidates' academic background and demonstrated passion for computer science.
- Awarded to 14 students.

2008 **Korea Presidential Science Scholarship**

- Full tuition scholarship for 4 years awarded based on the strength of candidates' academic background and research experiences.
- Awarded to ten students annually.