Shotaro Ikeda

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Work Experience

CS 196 June 2015 – Present
Course Assistant

- Currently writing homework assignments for students, very active helping students on Piazza.
- Managed two projects, Snappettite and Interest Matcher.
- Lead Artificial Intelligence Hackerspace, taught Freshman how to use the Naive Bayes Classifier to process and use the MNIST dataset.

HackIllinois August 2015 – Present
Mobile/Backend Developer

- Engaged in the "Open Hackathon" initiative.
- Currently lead developer of the official iOS Application and contributing to backend development.
- Administered official cluehunt application in 2015. iOS version had 51 users.

Education

2014 - Present **University of Illinois at Urbana-Champaign**
B.S. Computer Science
GPA: 3.63 / 4.0
Graduation: May 2018

Relevant Coursework

Courses Taken
CS 241 Systems Programming
CS 421 Programming Languages

Current Courses
CS 374 Algos. and Models of Computation
CS 427 Software Engineering I
CS 461 Computer Security I
CS 498SL3 Virtual Reality

Full list available on my website.

Projects

HackIllinois iOS App May 2016 – Present
- Current project for HackIllinois. Open Source.
- Features basic event features for Hackathons.

MoodTrackr May 2016 – Present
- W.I.P. Allows you to see what kind of moods are around using sentiment analysis via decision tree.
- Data processing is currently done, using Python's multiprocessing library (to circumvent GIL).

LiquidActionButton June 2016
- Open source project. An iOS UIButton-like class inspired by material design.
- Added more versatility and obtained small performance gain, about 5FPS.

HandReader2 October 2015
- Created as a tutorial for students in CS 196.
- A revisit of HandReader, using newfound Numpy knowledge. About 10 seconds faster than the original.
- 84.3% accuracy using the MNIST Database.

Flash Me! Feburary 2015
- SpartaHack 2016 Submission.
- Created iOS application, created weighting algorithm to increase the probability of showing cards that were marked incorrect.

Regex Cross-Compiler September 2016
- Fun side project to cross compile Mathmatical Regular Expressions to Python Regex.
- Generates syntax tree to parse and transform into Python Regex.
- Wishful TODO: auto-optimization of regex.

Languages

Comfortable	C, Swift, Python
Previously Used	JavaScript, CSS, HTML, Clojure, Haskell, MySQL, bash, git, LaTeX
Used in Classes	Java, C++

Interests

- Machine Learning, Artificial Intelligence, Backend, and Full-stack.
- Creative work, difficult, non-trival, or challenging problems.