

KENNETH HARVEY

Solving Recurring Problems and Freeing Creative Thoughts

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EDUCATION

Columbia University, Fu Foundation School of Engineering and Applied Science NYC

B.S. in Computer Science (Applications), May 2011

Cumulative GPA: 3.40 Programming GPA: 3.72

M.S. in Computer Science (Prog. Lang.), Oct. 2015 (Expected)

WORK

Next Jump Inc. NYC

Software Engineer II, Summer 2011 – Spring 2014

Developed site features. Collected visitor metrics. Consulted on architecture. Maintained code quality. Fixed bugs. Led study group on programming topics. Developed common scripts to be distributed to all engineers.

Languages and tools: HTML, JS, CSS, PHP, T-SQL, Bash, Viml, VMWare, SVN

Accolades: “Avengers Award - Top 5” (for helping others learn), “Incredibles Award” (for Full Engagement), “Top 10 Employee” (11 times)

RESEARCH

Columbia University, Computer Architecture and Security Technology Lab NYC

Graduate Researcher, Spring – Summer 2015

Part of a larger project to create high-level language pragmas for compilation targeted at a new Hybrid Continuous-Discreet Chip. Research includes program analysis to automatically identify implementations of certain numerical methods, so they can be compiled for the new hardware.

Languages and tools: C, Assembly

Columbia University, Programming Systems Laboratory NYC

Graduate Researcher, Spring 2015

Devising dynamic techniques for identifying “code clones” during program execution. Heuristic and exhaustive analysis are performed in the runtime environment and “similar” execution paths are rated against one another.

Languages and tools: Java Byte Code, C

Columbia University, Center for Computational Learning Systems NYC

NSF Undergraduate Researcher, Summer 2010

“Text-to-scene” generation project. Dynamically generated Human Intelligence Tasks on Mechanical Turk.

Designed server scripts for aggregation and validation of crowdsourced natural language data. Created systems to filter noisy responses and dynamically check crowdsourced data against FrameNet standards for grammar.

Languages and tools: Java, XML, Shell Script, PHP, Amazon Mechanical Turk, FrameNet XML

PROGRAMMING LANGUAGES WRITTEN

- ADHOC (Present) Graphical logic abstraction and language translation: <http://harveyserv.ath.cx/adhoc/>
- BOA_L (2010-2012) Browsable Online Applications (independent study).
- HTNP (2009) OO language that compiles to HTML, CSS, and Javascript (group project).

OTHER INTERESTS

Building Computers: Built several Windows desktops, and two LAMP servers which host my personal website

Ultimate Frisbee: Long-time member of Manhattan Ultimate Disc (captained four seasons).

Co-founded high school ultimate team. Played two years each of high school and college ultimate.