

HANS E HYTTINEN

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Education

- **Columbia University**, Fu Foundation School of Engineering and Applied Science 2008–present
B.S. in Computer Science (Applications track) — Expected Graduation: May 2012

Relevant Coursework:

Programming Languages and Translators
Programming and Problem Solving
User Interface Design
Intro to Cryptography
Natural Language Processing
Advanced Database Systems

Intro to Quantum Computing
Artificial Intelligence
Computer Science Theory
Intro to Databases
Computational Linear Algebra
Scientific Computation

Fundamentals of Computer Systems
Data Structures & Algorithms (Java)
Discrete Mathematics
Advanced Programming (C/C++)
Object-Oriented Programming & Design (Java)
AP Computer Science AB (Java)

Experience

- **Goldman Sachs**, *Technology Summer Analyst* 2011
Automated part of the workflow of a financial reporting tool. Improved user experience.
Wrote unit tests. Iterated on user feedback.
- **Columbia Center for Computational Learning Systems**, *Researcher* 2011
Investigated semantic frame recognition and distributional semantic models to extend FrameNet.
- **StrategyFirst**, *Lead Web Developer* 2010–present
Developed and designed website for small consulting firm, presenting information in a clean, professional manner.
- **Bwog**, *Lead Web Developer and System Administrator* 2008–2011
Collaborated with security expert to mend vulnerabilities and adhere to best practices.
Migrated from a shared hosting environment to a VPS optimized for growing traffic levels (using Nginx, MySQL, PHP-FPM, and memcached).
Replaced custom organizational methods with standard tools such as Google Apps.
Worked with assistant developer to fix bugs and implement new internal and user-facing features.
Provided support for dozens of editors and writers. Copyedited posts and wrote internal style guide.
Redesigned front-end and branding to present a strong, unified visual identity.
Migrated from custom CMS to WordPress by using XQuery to process a 2-million-line database dump.
Wrote and edited WordPress plugins to indicate origin of comments, enable editors to showcase favorite comments, and allow users to rate comments.
- **Morgan Stanley**, *Technology Summer Analyst* 2010
Implemented OLAP pivot tables in Adobe Flex as a new feature of an internal strategist tool. Reported and fixed bugs across Flex codebase. Improved user experience with feedback from internal clients. Integrated pivot table module into existing software solution.
- **Activities Board at Columbia**, *Director of Technology* 2010
Implemented new features in upcoming club funding allocation management system in PHP. Fixed bugs in existing backend scripts. Improved user experience of upcoming system with jQuery, HTML 5, and CSS 3.
- **Columbia Bartending Agency**, *Lead Web Developer* 2009–2010
Migrated static webpages to WordPress. Improved design and cleaned up HTML and CSS to adhere to web standards.

Activities

- **Application Development Initiative**, *Executive Board Member* 2009–present
Helped found group to cultivate a collaborative development culture on campus and provide resources for aspiring student developers and entrepreneurs. Organized events to connect technical and non-technical talents. Coordinated networking sessions, guest lectures, and workshops. Presented a series of workshops on core web technologies. Strengthened brand of group and the week-long DevFest event by designing promotional materials.



Activities, continued

- **2 Train Robotics, Programming, Electronics, and Web Mentor** 2008–2011
Mentored Bronx high school students in object-oriented programming, electronics, web design, mechanical engineering, and robotics design. Tutored students in mathematics, SAT subjects, and the college application process.
- **Columbia University Photography Society, Current ADI Liaison; Former Vice President, Webmaster** 2008–present
Designed and developed website to showcase group's photography talent and recent events. Organized lectures, workshops, group outings, trained beginning photographers in technical details.
- **Columbia Daily Spectator, Staff Photographer** 2008–2011
Photographed events on and off campus.
- **The Blue and White, Layout Editor and Online Editor** 2008–2011
Laid out six issues of Columbia's undergraduate literary magazine. Managed former website and directed development of upcoming website.
- **Columbia University Science Journal, Webmaster** 2008–2009
Improved design. Fixed bugs in content management system. Updated information on a weekly basis.
- **Engineering Student Council, Webmaster** 2008–2009
Organized social and networking events. Updated website with weekly minutes.

Skills

- **Programming Languages, Frameworks, and Markup Languages**
Java, Python, web.py, Flex (ActionScript & MXML), HTML, CSS, PHP, Javascript, jQuery, SQL, XML, XQuery, LaTeX, Lisp, C, Django, Ruby, Rails, Q
- **Tools, Applications, and Operating Systems**
FitNesse, Nginx, Apache, Redis, MySQL, Oracle Database, kdb+, vim, Textmate, IntelliJ, Netbeans, Eclipse, Perforce, CVS, SVN, git, Photoshop, Fireworks, Mathematica, MATLAB, WordPress, Textpattern, Mac OS X, Linux (Ubuntu, Debian), UNIX (several variants), Windows
- **Natural Languages**
Fluent in English and Finnish. Proficient in written Latin. Familiar with conversational Spanish.