

David Ellis

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Work Experience

- **Facebook** 02/2008-11/2009
Software Engineer - Internationalization Palo Alto, CA
 - translation tool (dynamic explosion, linguistic rules), feed comments, puzzles
 - published “A case study in community-driven translation of a fast-changing website” and “Social (distributed) language modeling, clustering and dialectometry”
- **Google** Summer, 2007
Software Engineering Intern - Search Quality Zürich, Switzerland
 - sentiment analysis and research projects in machine learning and natural language processing
- **Helsinki University of Technology** Spring, 2007
Visiting Research Assistant - Adaptive Informatics Helsinki, Finland
 - first-author publication at IJCNLP-08 (in Hyderabad, India): “Speech to speech machine translation”
- **Google** Summer, 2006
Software Engineering Intern - Rosetta Mountain View, CA
 - improved machine translation among a variety of languages
- **iParadigms** Summer, 2005
Intern Developer Oakland, CA
 - designed and implemented mirror-detection system for efficient web-crawling
 - improved plagiarism detection using enhanced fingerprinting for near-duplicate fragments
- **IAM Technology** 2004-2006
Consultant - Research and Development Providence, RI
 - engineered secure transaction management system for authentication across multiple domains

Skills

Languages (Natural): nearly fluent in Finnish; studied many other languages, including Hungarian and Sanskrit.

Languages (Programming): C, C++, Java, Python, Scheme, BASH/CSH/Bourne shell scripting, XML, PHP, SQL, CSS, XHTML, L^AT_EX, and others...

Software Development: comfortable in object-oriented and functional paradigms in a wide variety of languages; familiar with the use of pthreads, socket communication and dynamic programming

Education

- **Brown University**
B.A. 2007, with honors in linguistics (and significant coursework in computer science) GPA - 4.0
- **University of Helsinki**
Spring 2007, semester abroad, computational and Finno-Ugrian linguistics
- **Columbia University**
Summer session 2004, including graduate level course in linguistic anthropology GPA - 4.0

Academic Research

- **Computational linguistics** (with Profs. Eugene Charniak and Mark Johnson)
 - sentence parsing, translation - Brown Laboratory for Linguistic Information Processing (BLLIP)
 - * Coauthored ACL 2006 paper: “Multilevel Coarse-to-fine PCFG parsing”
 - * Honors thesis published at ACL 2008 (SIGMORPHON): “A Bayesian model of natural language phonology: generating alternations from underlying forms”
- **Information Security and Applied Cryptography** (with Prof. Roberto Tamassia)
 - email authentication - Accredited DomainKeys
- **Child Language Acquisition** (with Prof. Katherine Demuth)
 - coauthor of book chapter: “Revisiting the acquisition of Sesotho noun class prefixes” (2008)