

Edward Gan

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Education

- **Stanford University** Stanford, CA
PhD Student, Computer Science 2015 - Present
 - Coursework in machine learning and databases
- **Harvard University** Cambridge, MA
A.B. Summa Cum Laude in Computer Science and Mathematics, GPA 3.96 May 2013
 - Senior Thesis in programming language design with Prof. Greg Morrisett

Experience

- **Facebook, Inc.** Menlo Park, CA
Software Engineer, Data Tools / Ads Data Targeting 2013-2015
 - Data Pipelines
 - * Built the execution engine and UI for running company data pipelines on past data
 - * Replaced a 2-yr old system to support larger and more ad-hoc workflows
 - * Iterated with major users to identify needs
 - Offsite Targeting Traffic Backend
 - * Set up monitoring and remediation to reduce outages from hours to minutes
 - * Improved caching and query indices to scale out realtime throughput by 2x and batch by 10x
- **Programming Languages Research** Harvard CS Dept
Research Assistant, Herchel Smith Fellow 2012-2013
 - Designed and implemented a language to help programmers manage system resources
- **Microsoft Corp.** Redmond, WA
Software Development Engineer Intern, Windows 8 Division Summer 2011
 - Worked with a team of interns to design and develop a note-taking web app
 - Application included in Windows 8 Developer Preview

Publications

- **Type Classes for Substructural Types** Vienna, Austria
E. Gan, J. Tov, and G. Morrisett. July 2014
 - Third International Workshop on Linearity (LINEARITY 2014), published in EPTCS
- **RockSalt: Better, Faster, Stronger SFI for the x86.** Beijing, China
G. Morrisett, G. Tan, J. Tassarotti, J.B. Tristan, and E. Gan. June 2012
 - ACM Conference on Programming Language Design and Implementation (PLDI 2012)

Awards

- **NSF Fellowship** Stanford, CA
Graduate Research Fellow 2015 - 2020
- **International Physics Olympiad** Hanoi, Vietnam
Gold Medalist Summer 2008

Programming Experience

Proficient with Python and Java, familiar with C++ and OCaml.