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Jacob Bandes-Storch

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Palo Alto, CA

Many passions, from algorithms to aesthetics. Practitioner of correctness and clarity. Seeking learning opportunities, collaborative and diverse teams, applications to education and the sciences, and projects of global significance.

Experience

- Upthere Inc.** — Member of Technical Staff (Palo Alto, CA) May 2014–Present
 - Developing applications and frameworks for iOS and OS X. Exercising close collaboration with other engineers across the full stack, and tight feedback loops with design & product teams.
- ✳️ **Counsyl Inc.** — Software Engineer Intern (South San Francisco, CA) Summer 2013
 - Designed and implemented an end-to-end workflow for the digitization of paper forms, incorporating some third-party tools. Released a component as open-source software and wrote an accompanying blog post.
 - Explored a frequency-domain approach to a genetic carrier test using NumPy, SciPy, and scikit-learn.
- 🏢 **Microsoft Corp.** — Windows Phone SDE Intern (Redmond, WA) Summer 2012
 - Developed prototypes of proposed features relating to the Windows Phone music recognition functionality.
 - Wrote and maintained design documents with project goals, strategies, and implementation decisions.
- 🍏 **Apple Inc.** — System Applications Intern (Cupertino, CA) Summer 2011–Winter 2012
 - Implemented features and fixed bugs in the Mac App Store client application for Mac OS X Lion.
 - Designed and implemented internal development and debugging tools for the Mac App Store team.
- ✉️ **Vernier Software & Technology** — iOS Developer (Beaverton, OR) Summer 2010, Winter 2011
 - Developed and released *Video Physics for iOS*, an educational app for video capture and graphical analysis.

Education

- B. S. Computer Science–Mathematics** — Harvey Mudd College (Claremont, CA) 2014
 Computability & Logic Advanced Topics in Algorithms Computational Methods in Physics Real Analysis Abstract Algebra
 Programming Languages Concurrency in Computation Operating Systems Numerical Analysis Combinatorics
GPA: 3.87. Graduated with High Distinction; received departmental honors in Computer Science and Mathematics. Completed online coursework in Machine Learning (Coursera) and Artificial Intelligence (Udacity). Summer 2013
- 🏢 **Sandia National Labs** — Computer Science Clinic Project (4-student group) 2012–'13 academic year
 - Optimized and enhanced the Atomistic-to-Continuum coupling package for the LAMMPS molecular dynamics simulator, focusing on parallelization using MPI (C++).
- Aquincum Institute of Technology** — Study-abroad program in CS and Math (Budapest, Hungary) Spring 2012

Independent Projects

- TextMate 2** contributions — Open-source text editor for Mac OS X (github.com/textmate/textmate) 2012–Present
 - Contributions include a Quick Look generator, API modernization, and enhanced theming support.
- iPhone Development** — Independently developed and released applications; freelance contracting 2008–2010
 - Developed *Vladstudio Puzzles*, a jigsaw puzzle game, and *Portland Transit*, a real-time bus/train schedule app.

Skills

Proficient: Swift, Objective-C/C++ (Cocoa & Cocoa Touch), C/C++, Mathematica, Ruby, Python, HTML, CSS, JavaScript.
Knowledgeable: Rails, Django, Perl, Java, PHP, MySQL, Scheme, Haskell, Prolog, LabVIEW, MATLAB, etc.
Tools and Applications: Git, Clang, GDB/LLDB, Xcode, Subversion, L^AT_EX; standard UNIX and OS X tools, and others.

Awards & Honors

- Oregon Student Technologist of the Year** — TechStart Education Foundation 2010
- Programming Contest Champion** — Willamette University–TechStart Programming Contest 2009 & 2010

Leadership & Activities

- ASHMC Representative, HMC Teaching & Learning Committee** 2013–'14 academic year
 - Provided input on behalf of the Associated Students of HMC to the committee which advises the faculty, administration, and Board of Trustees on matters related to maintaining and improving teaching effectiveness.
- ASHMC Representative, HMC Computing Committee** Fall 2012–Spring 2014
 - Provided student input to the committee responsible for advising and furthering the school's use of technology.
- Vice President** and former Co-President, **MuddSD** (software design & development club) Fall 2011–Spring 2013
 - Projects were primarily service-oriented, including a voting website for student government elections.
- Computer Science Grader & Tutor** for various introductory and advanced CS courses. Fall 2010–Spring 2014

Other Interests Robotics/HCI · Physics · Music (choral and solo piano performance) · Typography · Photography