

Ben Adida

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100 N Whisman Rd #4311
Mountain View, CA 94043

☎ 415.683.1383

✉ ben@adida.net

Summary & Objective

I am an experienced technologist with deep experience in web (15 years), security/cryptography (7 years), and medical informatics (5 years). I have a strong vision for architecting advanced web-based systems, experience leading multiple software development teams, and extensive experience analyzing and presenting complex technical topics to diverse audiences, both in business and academic settings. I want to provide technical leadership in a startup environment.

Experience

- 2007-present **Lead Software Architect / Research Faculty, Harvard Medical School, Boston, MA.**
Lead architect on major medical informatics software projects: Indivo (<http://indivohealth.org>), Gene Partnership (<http://genepartnership.org>), and SMART (<http://smartplatforms.org>). Focus on distributed web architectures, software modularity in medical IT, and personally-controlled health data. Designed a new personally controlled health record platform strategy and software for patient-directed innovation, including TuAnalyze (<http://tuanalyze.org>) integration with patient social-networks.
- 2002 - present **Technical Advisor and W3C Representative, Creative Commons, San Francisco, CA.**
Advisor on structured data and interoperability, specifically semantic web / linked open data, and more generally web technology. At W3C, co-founder and co-chair of the RDFa Task Force, co-author of the RDFa specifications, primer, and JavaScript reference library. RDFa forms the basis for embedding structured data in HTML, e.g. in Facebook's Open Graph Protocol.
- 2006-2008 **Postdoctoral Fellow, Harvard University, Cambridge, MA.**
Research on privacy and security, with a focus on web security & privacy, voting systems. Designed and developed Helios (<http://heliosvoting.org>), the first web-based truly verifiable voting system.
- 2004-2006 **Research Assistant, MIT, Cambridge, MA.**
PhD research focused on voting systems, digital signatures and privacy.
- 2000-2003 **Co-Founder, CEO and CTO, OpenForce, New York, NY.**
Defined and implemented company strategy: providing enterprise web software services using open-source software. Often hired as acting Chief Technology Officer by customers (GreenOrder, Creative Commons). Signed on, architected, and led the software implementation of client projects, including the MIT Sloan School of Management, the LA Unified School District, GreenPeace, Creative Commons, GreenOrder, the Berklee School of Music.
- 1999-2002 **Co-Founder and Director, OpenACS and dotLRN open-source projects.**
Led design and implementation of major open-source enterprise web software endeavors: the OpenACS web application toolkit and dotLRN course management system. More than 15 companies support this software and hundreds of web sites run it, including more than 100 universities.
- 1998-1999 **Co-Founder and Project Lead, ArsDigita.**
Led design, implementation, and deployment of major software projects with Levi Strauss and GreenTravel.com (now Away.com). Helped launch the world's first open-source web application toolkit in 1998: the ArsDigita Community System.

Education

- 2003-2006 **PhD Computer Science**, *MIT*, Cambridge, MA.
Advances in Cryptographic Voting Systems. Supervised by Ronald L. Rivest.
- 1998-1999 **MEng Computer Science**, *MIT*, Cambridge, MA.
Self-Describing Cryptography. Supervised by Ronald L. Rivest.
- 1994-1998 **S.B. Computer Science**, *MIT*, Cambridge, MA.

Skills

- system Linux, Mac OS, some Windows, Amazon EC2
- programming Python, Ruby, JavaScript, Java, Tcl, Scheme
- storage PostgreSQL, Oracle, BerkeleyDB
- data SQL, XML, XML Schema, XSLT, RDF, SPARQL
- web backend Django, Ruby-on-Rails, Spring, AOLserver/Naviserver, RabbitMQ, Google AppEngine
- web frontend jQuery, JavaScriptMVC, HTML4/5, RDFa, some CSS
- protocols & APIs OpenID, oAuth, Facebook API, OpenSocial API, Twitter API
- software design REST, web standards, web security, privacy considerations, crypto protocols

Miscellaneous

- languages fluent in English and French
- citizenship USA and France

Invited Presentations

available for download at <http://ben.adida.net/presentations/>.

Publications and Professional Activities

available for download at <http://ben.adida.net/research/>.