

Breanden Emmett Beneschott

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775.232.6388

Education

- Princeton University, Class of 2008: Chemical Engineering, Finance and Pre-Medicine
- Galena High School, Class of 2004: Valedictorian with Honors
- Stanford University Laboratory Safety and Clean Room Operation Certified
- University of Nevada Reno Environmental Health and Safety Laboratory Safety Certified
- University of Nevada Reno Machine Shop Certified

Advanced Technical Knowledge and Experience

Skills, Qualifications and Experience

- Chief Technology Officer / Operations Officer
 - Writing, designing, managing software requirements specifications and development
 - U.S. Patent, Trademark and Copyrighting
 - Mathematical modeling for revenue generation and optimization
- Technical project manager
 - In-house teams
 - Outsourcing
 - India
 - New Zealand
 - United States
- Technical Developer
 - UI, graphic design and usability expert
 - Software development and applications
 - System administrator
- Excellent presentation and academic lecturing skills

Systems and Concepts

- Web 2.0 Social Networking
- Graphic Design and Usability
 - Multimedia
 - Digital and print
- Content Management Systems
- Customer Relations Management Systems
- Online revenue generation
 - Targeted advertising
 - Targeted marketing
- RSS and content syndication
- SMS / text messaging
- Search engine optimization
- Internationalized websites
 - Multi-language
- Global search engine optimization
- Cross browser compatibility
- Facebook APIs
- SVN

Advanced Technical Skills

Advanced Technical Skills

- DHTML / xHTML
- AJAX
- CSS
- PHP
- CFM
- MySQL
- Flash/ActionScript

Minor Experience

- WML
- ASP

Tools

- Drupal
- Joomla!
- CiviCRM
- Openads
- Adobe Create Suite 3
- Open Office
- Microsoft Office
- WAMP
- LAMP
- Zend Studio
- Firebug
- FTP / SSL
- SVN

Recent Professional Experience

- Principal / Director of Technology, Snafue, LLC
 - Snafue is a software development and consulting company with members/partners across the United States and China. At the company, Breanden is responsible for management, business development, graphic design, technical specifications development, business modeling, business and technical consulting, and software systems implementation / development.
 - Primary Technologies: Drupal, Joomla!, Net-Flow, PHP, MySQL, AJAX, xHTML, ActionScript and CSS

- Director of Technology, Admish, Inc
 - Admish.com is a powerful college admissions community that brings together colleges, students, parents, teachers, and guidance counselors in a single portal. As Director of Technology, Breanden was responsible for the graphic design, technical specifications and development. Breanden lead a team of in-house developers to create the Web 2.0 product.
 - Technologies: Drupal, Openads, PHP, MySQL, AJAX, dHTML, CSS Flash and ActionScript
- Chief Technology Officer, Zandigo, LLC
 - Zandigo was a portal where students can find – and be found by – colleges that are right for them. As Chief Technology Officer, Breanden was responsible for the graphic design, technical specifications and development. Breanden simultaneously led lead teams in India, New Zealand and in-house.
 - Technologies: Drupal, CiviCRM, PHP, MySQL, AJAX, dHTML, CSS, Flash and ActionScript
- Director of Technology, Cellutopia
 - As the senior developer for the company, Breanden built an entire content management system for real estate agents to manage their listings, finances, MLS and online presence. Breanden was also responsible for extensive patent research and development.
 - Technologies: CFM, MySQL, AJAX, dHTML and CSS
- Intern under Senior Vice President, Morgan Stanley Dean Witter
 - As an intern under the Senior Vice President, Breanden shadowed brokers and his responsibilities included the designing several MSDW marketing presentations for Branch 107 clients and financial advisor seminars as well as writing several computer programs for financial calculations.
 - Technologies: Adobe Create Suite, MS Office 2004

Publications

- **High speed tapping mode atomic force microscopy in liquid using an insulated piezoelectric cantilever**
B. Rogers, T. Sulchek, K. Murray, D. York, M. Jones, L. Manning, S. Malekos, **B. Beneschott**, J.D. Adams, H. Cavazos, and S.C. Minne, “High speed tapping mode atomic force microscopy in liquid using an insulated piezoelectric cantilever,” Review of Scientific Instruments, Volume 74, Issue 11, pp. 4683-4686 (2003)
- **Comparison of self-sensing techniques for mercury vapor detection using piezoelectric microcantilevers**
B. Rogers, L. Manning, C.A. Bauer, M. Jones, T. Sulchek, K. Murray, **B. Beneschott**, Z. Hu, T. Thundat, and J.D. Adams, “Comparison of self-sensing techniques for mercury vapor detection using piezoelectric microcantilevers,” Proceedings of IMECE’03 2003 ASME Internat. Mech. Eng. Congress & Exposition
- **Mercury vapor detection with a self-sensing, resonating piezoelectric cantilever**
B. Rogers, L. Manning, M. Jones, T. Sulchek, K. Murray, **B. Beneschott**, J.D. Adams, Z. Hu and T. Thundat, H. Cavazos and S.C. Minne, “Mercury vapor detection with a self-sensing, resonating piezoelectric cantilever,” Review of Scientific Instruments 74, 4899 (2003)
- **Piezoelectric self-sensing of adsorption-induced microcantilever bending**
J.D. Adams, B. Rogers, L. Manning, M. Jones, T. Sulchek, K. Murray, **B. Beneschott**, Z. Hu, T. Thundat, H. Cavazos, S.C. Minne, “Piezoelectric self-sensing of adsorption-induced microcantilever bending,” Sensors and Actuators A, 121 (2), 457-461 (2005)s

Interests, Activities, Special Abilities

- Acrobatics and Dance, Harrahs Casino Lake Tahoe, Lucky Rabbit Production Co. and Disiac Dance Company: Aerial Silks, Modern, Lyrical, Hip Hop, Adagio Dance
- Competitor, 1994-2003, Junior Olympics Class II Gymnastics: regional and national competitor, Starz Gymnastics Team Captain
- Knowledgeable on laboratory techniques and procedures: Atomic Force Microscope and applications including sensing and nanoscale imaging (see publications), Impedance Analyzer, Plasma Enhanced Chemical Vapor Deposition, Easy Tube® SWNT/MWNT, Plasma Etcher, Clean Room construction/ techniques/fabrication, also numerous types of laboratory equipment, certified for use of the Stanford Nanofabrication Facility and Class 100 Clean Room