## Tamara Blain

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# Objective

I am looking for a challenging opportunity to apply my proven programming experience, and my multidisciplinary approach to innovative problem solving.

## Summary of Qualifications

- Extensive project experience programming in Python, including an implementation of a BCI-controlled communication system for Master's Thesis
- Four years experience front and backend web development on large scale projects involving crossfunctional teams and tight deadlines
- Experience writing code for limited memory and resources

#### Education

M.S. E.E., UC Berkeley, Berkeley CA, December 2009 B.S. C.S., CUNY Queens College, New York NY, May 2003 B.S. Biochemistry, SUNY StonyBrook, StonyBrook NY, May 1995

## Relevant Experience

#### **Research Assistant**, 7/2003 – 12/2006

Lawrence Berkeley National Labs, Berkeley, CA

- Assisted the group that developed the front-end system of the Spallation Neutron Source (SNS), which provides pulse neutron beams used to determine the atomic make-up of materials.
- Designed modules that enabled additional functionality to the FPGA emulating the SoC controller of the RF-based acceleration system, allowing greater flexibility and control to SNS users.
- Verified designs, ensuring correctness and functionality.

### **UC Berkeley Student Projects**

- A BCI-Controlled Virtual Keyboard Design for Noisy Input and Limited Bandwidth Designed and implemented a Python simulation of a method of communicating over a brain-computer-interface (BCI) constrained by noise and bandwidth; Master's project.
- <u>Catching Phish: Detecting Phishing Attacks from Rendered Website Images</u>

  Developed a method of thwarting phishing attacks using machine learning techniques on rendered images of websites; class project.

## Web Developer, 6/1999 – 9/2002

Concrete Media Inc., New York, NY

- Developed websites and intranets for such large companies as, Bertelsmann AG, The Princeton Review, and ScreamingMedia.
- Developed large-scale portal sites such as GirlsOn.com, Lids.com, Bolt.com, and Homeroom.com.
- Ensured unerring code performance across all browser engines.

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- Initiated and created a centralized system, which improved site development efficiency and enhanced developer collaboration.
- Stimulated the interest of new clients by producing presentations of cutting edge client-side technologies, to be delivered by the marketing team.
- Surveyed web trends and technologies for opportunities to improve client websites
- Interviewed prospective developers, ensuring their quality, capabilities, and culture-fitness.

### Web Developer Intern, 11/1998 – 6/1999

Sensenet, Inc., New York, NY

- Helped actualize the web footprint of such large companies as Pfizer and Sprint.
- Designed and implemented rigorous usability tests for significant clients such as Metamucil, Showtime, and Captain Morgan.
- Resolved, tracked, and documented technical issues with client sites in a timely fashion.

### Technical Expertise

### **Programming Languages**

Proficient: Python, C++, Matlab, Verilog

Knowledgeable: HTML, JavaScript, Actionscript, SQL, ASP, Java, R, C, VHDL, x86 assembly, ARM IS

#### ASIC/FPGAs

Knowledgeable: Xilinx, Altera

#### Systems

Proficient: Linux, Windows, Mac OSX

### Version Control

Proficient: CVS, GIT Knowledgeable: SVN

### Professional Affiliations

IEEE, ACM

#### Interests

Developing for Mobile Devices, Machine Learning, Computer Architecture, and Robotics