

NOAH M FONTES

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OBJECTIVE

To immerse myself in an engaging, challenging, and exciting technical position; to become enlightened, to learn, and to encourage immersion and learning.

SKILLS

- **Communication** · Excellent communication skills and knowledge of the English language
- **System administration** · Fully capable of workstation and server administration
- **Programming, scripting** · Knowledge of languages including PHP, Python, Java, and C
- **Object-oriented programming** · Understanding of object-oriented design and practices
- **Messaging** · Implementation of XML and other specifications for network-based transactions and templating
- **Client-side Web development** · Experience with implementing and testing (X)HTML, CSS, and JavaScript
- **Data analysis** · Experience with SAS 9 analysis engine
- **Network management** · Knowledge of network routing and firewalling using FreeBSD ipfw and Linux iptables
- **Version control** · Capable of using and constructing Subversion, CVS and Mercurial repositories
- **VPN management** · Able to deploy and manage OpenVPN virtual private networks
- **IPv6 deployment** · Capable of IPv6 deployment and tunneling
- **Emacs** · Experience with many aspects of GNU Emacs
- **LaTeX** · Basic knowledge of LaTeX

EXPERIENCE

CONSULTANT

June 2008 – Present

Bitextender GmbH
Munich, Germany

- Worked closely with team members on-site to finalize API decisions for several Agavi framework components
- Assisted in producing and deploying company Website and Agavi framework Website
- Deployed calendaring services, e-mail signing certificates, wiki software, and XMPP-based instant messaging software in the company office

STUDENT, SUMMER OF CODE

May 2008 – September 2008

Google Inc.
Mountain View, CA

- Architected and partially implemented modular C-based configuration system
- Implemented design changes to provide flexible message-passing between components in the Conspire Internet Relay Chat (IRC) client

INFORMATION TECHNOLOGY INTERN

June 2007 – August 2007

iContact Corporation
Durham, NC

- Developed bug-tracking and reward system to increase developer productivity
- Created statistics gathering software pulling data from multiple services over SOAP and database protocols

EDUCATION

STUDENT · B.A. LINGUISTICS
2008 – Present

University of North Carolina at Chapel Hill
Chapel Hill, NC

- Selected to the Honors Program
- Recognized as Class of 2012 Distinguished Scholar

STUDENT
2004 – 2008

Apex High School
Apex, NC

- Cumulative weighted GPA was 5.00
- Class rank was 5th out of 559
- Selected to the Academy of Information Technology (AOIT)

VOLUNTEER AND OTHER WORK

DIRECTOR
2007 – Present

Transtruct
Raleigh, NC

- Working with teams of two to five developers on various open-source projects
- Creating a structured Python development chain for creating applications, including application server and Model-View-Controller framework
- Developing a flexible build system as a replacement for Apache Ant and GNU Autotools
- Creating a replacement library for Java's `io`, `nio`, and `net` packages

DEVELOPER
2006 – Present

Agavi
Munich, Germany

- Created new generated-project management system
- Designed and implemented major components of new XML-based application configuration system
- Researching and creating new framework for handling storage and caching engines
- Performed research for new execution flow model
- Maintained XSL renderer

SERVER ADMINISTRATOR
2005 – 2006

Dotgeek
Delémont, Switzerland

- Responsible for over 200 users hosted on server
- Handled support for users
- Maintained and secured software running on server
- Integrated user account management and creation with CPanel

WEB DEVELOPER
2004 – 2005

Neverside
Orange, CA

- Created PHP staff job application center
- Co-developed custom API currently running site
- Responsible for fixing many site bugs found during time period
- Created C module integrating custom API with site's IRC network

PAPERS AND PRESENTATIONS

1. Fontes, N. (2008, November). *Designing an adaptable, multi-environment application server in Python*. Contributed to PyWorks 2008, Atlanta, GA.

PROFESSIONAL ASSOCIATIONS

- Society for Philosophy and Technology · 2007 – Present

HONORS

- National Merit Scholar, University of North Carolina at Chapel Hill · 2008 – Present
- IBM Thomas J. Watson Memorial Scholar · 2008 – Present
- Who's Who Among American High School Students · 2004 – 2005, 2005 – 2006, 2006 – 2007
- Duke University Talent Identification Program · 2002 – 2008

INDEPENDENT EXPERIENCE

- Writing, maintaining, and ensuring stability of a Linux kernel patch to provide hardware support for MikroTik RouterBOARD 600 series devices
- Writing a library to provide support for handling client↔server interaction in PAM and NSS
- Wrote C library and Java application to manage subnet allocations based on network masks for a virtual private network
- Wrote various libraries to interact with the IRC protocol through PHP
- Maintained various personal Websites since 2001