

Justin Knoll
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Objective A position in software engineering with the opportunity to learn and apply new technologies to solve challenging problems.

Education Bachelor of Science in Computer Science
University of Wisconsin, Milwaukee (December, 2004)

Relevant Projects
Computer Security
Implemented the Fiat-Shamir protocol for zero-knowledge proof of identity.

Data Mining
Wrote an application which performed suffix tree clustering on messages in an IMAP mailbox in order to quickly identify and recommend related messages.

Experience **Technology By Design, LLC**
April 2006-Present
Programming, WebDesign, Database Administration, System Administration

Maintained and supported a Java-based realtime utilities monitoring and building oversight application with a secure web console. Assisted in the development of the next-generation version of the application using Spring MVC.

Improved development processes, including introducing issue tracking (Trac/Jira), source control (subversion), functional testing (Selenium). Introduced modern Javascript development techniques including the extensive use of the Prototype and JQuery frameworks. Introduced Ajax development and modern user interface design with a focus on usability.

Oversaw a production team in the development of web applications and web sites using Java, PHP, Ruby, Javascript, and XHTML/CSS-P.

Implemented Google Analytics-based reporting and wrote custom Ruby applications to mine search engine optimization information and make recommendations for a first-in-category consumer packaged goods manufacturer.

Experience
(continued)

Noema Design, LLC
June 2004-April 2006
Web Programming

Designed a web presence for a local laser eye surgery practice including Flash video components, an interactive quiz, search engine optimization and multipart HTML/text opt-in marketing. Created an online ticketing system e-commerce solution for a regional concert venue, including authorize.net real time credit card authorization and payment and email ticket generation.

Developed a secure Ruby on Rails application for the sharing of patient information between an a scan center, remote treatment creation workstations, and a treatment center.

Worked remotely from the Carribean island of Martinique, planning, setting schedules and budgets for projects for clients in the United States.

HBI Consulting

September 1999-June 2004

Web Programming/Design, Database Administration, System Administration

Co-wrote a widely deployed content management system in object oriented PHP, deployed on a variety of host operating systems and databases including Solaris, Linux, FreeBSD, and MySQL, PostgreSQL, and Oracle. This system served the entire public web sites of Marquette University, Milwaukee Public Schools, and the University of Wisconsin-Milwaukee's School of Education.

Developed a secure business-to-business e-commerce solution for Verizon Wireless' "Employee Phone" corporate affiliate sales program.

Developed a secure online portal for a philanthropic organization which allowed groups of donors to log into their foundation's home page and track assets, giving histories, and other material, with an administrative interface to allow the philanthropic organization to upload and manage PDFs, Excel spreadsheets, etc. through the web.

Developed a focus group usability testing application, including a front end multipage quiz, database and reporting tools for one of Northwestern Mutual Life's online assets, used to guide the subsequent redesign.

Stein Laboratory for Neuroscience, Medical College of Wisconsin

August 1997-September 1999

Programming, System Administration

Wrote Perl, C, C++ and bash tools to perform technical analyses of fMRI (functional magnetic resonance imaging) volumetric time series and biomedical signal processing of related data sets. Installed and maintained tools to support these tasks.

References

Available on request.