

Kevin Flasch

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Professional Experience

LoadTrek

Madison, WI

Software Developer

May 2012 - Present

- Development of high-availability web-based and desktop software for management, dispatch and support of transportation fleets across multiple industries
- Development of mobile software for custom hardware and Android-based devices for driver and vehicle management
- Implementation and maintenance of database systems for numerous companies with large amounts of auditable data
- Build systems aimed at integration with other transportation and accounting software systems
- Creation and maintenance of internal company support tools and documentation
- Help provide 24/7 availability of software and database systems

Lannon Stone Products

Sussex, WI

Computer and Technical Consultant

March 2010 – May 2012

- Responsible for overseeing and supporting company network and computing systems and users of a large quarry/stone operation
- Developed company website and internal website for company documentation
- Ran and operated quality testing laboratory to provide technical analysis of mined and produced material
- Managed company-wide hardware, software and operating system upgrades

University of Wisconsin – Milwaukee (UWM)

Milwaukee, WI

LIGO Research Group

Research Consultant

August 2007 – May 2009

- Researched techniques for the publication, replication and analysis of a metadata database for data intensive (100+ TBs) high-profile international scientific research project in a distributed computing environment
- Ran usage scenarios and test cases for web services applications in a distributed computing environment
- Optimized, ran test cases and implemented changes for an in-use large data replicatino application

Grid Programming Consultant

January 2004 – August 2007

- Aided in the design and development of an integral distributed data management and replication application used to transfer large (100+ TB) amounts of scientific data internationally
- Collaborated with and supported a community of developers and administrators at different sites internationally in transferring scientific data and developing and using related software
- Managed the organization, cataloging and movement of large sets of scientific data locally and at other sites by writing portable tools to automate these tasks
- Developed a tool to automatically verify characteristics and validity of scientific data across distributed storage
- Optimized performance of large data transfers across high-bandwidth connections such as Internet2
- Managed bringing projects in under deadlines and time constraints
- Contributed to conferences, workshops and talks involving data transfer, publication and scheduling
- Wrote and maintained documentation and web pages for software usage

Systems and Network Administrator

November 2000 – January 2004

- Aided in the design, implementation and maintenance of a 300-node Linux-based computing cluster

- Designed and maintained a large group of servers and user computers
- Developed and implemented methodologies for repetitive and failsafe rebuilding (cloning and kickstarting) of systems
- Provided administrative support to a group of 10-15 onsite users and hundreds of off-site users around the world
- Wrote tools for maintenance, performance testing, system monitoring, and package maintenance
- Testing and benchmarking of many different system configurations and different technologies such as channel bonding
- Helped administer and maintain 48-node DEC Alpha-based cluster
- Wrote technical documentation and developed web pages for system usage and maintenance

University Information Technology Services (UITS)

Milwaukee, WI

University of Wisconsin - Milwaukee

Campus Solution Center Consultant

August 1999 – December 2001

- Supported users and maintained and troubleshot hardware and software in Windows, Mac and UNIX environments
- Provided off-site consulting to the Nonprofit Management Fund of Management Cornerstones Inc. to improve and add to their capability to provide computing resources to local non-profits

Contract Experience

LoadTrek

Sun Prairie, WI

Software Developer

September 2010 – October 2010

- Designed, implemented and tested Android application for transportation fleet management

Marquette University

Milwaukee, WI

Computer Consultant

July 2003 – September 2005

- Performed Linux administrative tasks and Linux instruction for a professor of Physics, including purchasing, setup and maintenance of machines designed to run scientific analysis
- Debugged scientific code

Skills and Expertise

- Languages: Java, C#, Python, C++, C, Common Lisp, JavaScript
- Mobile development: Android and Windows CE
- Web development: GWT, JS/CSS/HTML, Apache Server / Tomcat / Servlets, IIS, CGI
- Databases: MySQL, MS SQL, SQLite
- Development and admin tools: git/svn/cvs, GNU tools (sed, awk, etc), Eclipse, Visual Studio, vi, emacs
- Web Services: SOAP, REST, WSDL, JSON, ASP.NET
- UNIX-based operating systems (Linux, Solaris, OSX) and Windows (Desktop/Server), usage, administration, maintenance and software development
- Text search and processing including toolkits such as Lucene and NLTK
- Designed, constructed, and maintained large programming and system design projects
- Software and hardware troubleshooting in a wide variety of environments

Education

University of Wisconsin – Milwaukee, Milwaukee, WI

Completed 24 credits of graduate coursework in Computer Science

University of Wisconsin – Milwaukee, Milwaukee, WI

BS in Computer Science, 2003