Dipl.-Inf. Cecile Neu

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Professional experience

September 2006 – today: Software engineer, systems administrator, MyControl GmbH & Co KG

Design and implementation of database-backed web applications in the B2B sector in Perl, PHP and Jquery. Implementation of a JavaEE-based document management web application. Implementation of a logistic system middleware in Java. Experienced with agile development methods in a distributed team. Use of versioning systems (CVS, SVN, git, hg) and automated testing (Jenkins).

Responsible for the administration of the company's FreeBSD servers, running Apache, TomEE, MariaDB, Postfix, Jenkins, Stash and custom applications. Design and implementation of our security guidelines. Technical support of the Java development team. Monitoring of application performance, optimization of application performance. Evaluation of performance testing tools (NeoLoad, Jmeter, HP Loadrunner). Performance evaluation and administration of a highly scalable web application backend in the Amazon cloud.

Implemented a management toolkit based on the NetAPP Filer remote API.

Implemented a pricing tool for a truck manufacturer which was used to support the sales network.

July / August 2004, February / March 2005: Intern at the Centre for quantum information and communication, Université Libre de Bruxelles

Implemented a quantum key distribution protocol in C++, as part of Dr. Gilles van Assche PhD thesis, under supervision of Prof Nicolas Cerf.

November 2001-August 2006: Student trainee, MyControl GmbH & Co KG

Design and implementation of database-backed web application in Perl and PHP.

September 2000 – October 2001: Freelancer

Implemented a web application for library administration in Perl

Held multiple in-house classes on Linux and Unix utilities at Siemens AG. Trainings continued for multiple weeks, improving Linux skills of over 50 Siemens employees.

May 1998 - September 2000: Student trainee, Cybernet AG

Maintenance and development of a technical customer database in Perl and MySQL. Tests and evaluation of hardware dial-up components and implementation of customized dial-up and application server solutions.

April 1997 - April 1998: Student trainee, Lehrstuhl für Feingerätebau und Mikrotechnik, TU München

Design, construction and realization of experimental setups with solid-state lasers and laser diodes. Design and implementation of a measurement software in C under MS-DOS.

Participated in training at Percona on MySQL performance (InnoDB and XtraDB) and high-performance application development.
Joined the OWASP AppSec conference to advise company on best practices for application security.
Participated in CheckMK training with a focus on python scripting for domain-specific monitoring.

We used the new knowledge to evaluate and improve our applications for performance and security gains.

Education

Languages: native speaker of German and French, excellent English.

Spring 2016: Coursera training, Machine learning foundations

https://www.coursera.org/account/accomplishments/records/E587TX9DQGVH

Winter term 2003 / Summer term 2006 Ludwigs-Maximilians-Universität München

Graduate studies in mathematics, minor subject quantum physics
Mathematical physics, quantum groups, higher algebra.

Winter term 96/97 - Winter term 02/03 Ludwigs-Maximilians-Universität München

Major: Computer sciences with emphasis on computer networks, network management, databases and software engineering.
Minor: Physics (optics and optical semiconductors).
Diploma thesis: "Design and implementation of a generic quality of service measurement and monitoring architecture".
http://www.nm.ifi.lmu.de/pub/Diplomarbeiten/neu02/

Diploma (grading: "gut")
Diploma thesis (grading: "sehr gut")

Winter term 94/95 - Summer term 96 Ludwigs-Maximilians-Universität München

Undergraduate studies in physics (major) with a minor in computer sciences.

1994 Lycée Français Jean Renoir München

French elementary school, Collège and Lycée in Munich.
International Baccalauréat du second degrée at age 16.

Student research projects

2002 May - November: Diploma thesis, grading "Sehr gut"

"Design and implementation of a generic quality of service measurement and monitoring architecture" at the chair for "Kommunikationssysteme und Systemprogrammierung", LMU München (Conceptual formulation Prof. H.G. Hegering, supervision by Dipl.-Inf. M. Garschhammer, Dipl.-Inf. B. Kempter). The goal of this thesis was to develop an architectural framework and a protoypical implementation for QoS measuring and monitoring in data networks. The implementation was realised in Perl and PerlTK.

http://www.nm.ifi.lmu.de/pub/Diplomarbeiten/neu02/

2001 August - September: Advanced practical course, grading "Sehr gut"

Advanced practical course at the chair for "Kommunikationssystemen und Systemprogrammierung". The goal of this advanced practical course was to redesign and rebuild the experimental setup for network protocol analysis from the practical course "Aufbau von Rechnernetzen". To this end, a diskless boot infrastructure for SuSE Linux was set up.

SS 01: Practical course: "Aufbau von Rechnernetzen", grading „Sehr gut"

Practical course at the chair for "Kommunikationssystemen und Systemprogrammierung", which covered the design and management of TCP/IP and ATM networks.

WS 00/01: Advanced seminar, grading „Gut"

"Neue Konzepte für das Management komplexer vernetzter Systeme" (Lehrstuhl für Kommunikationssysteme und Systemprogrammierung). Title of the talk: "Policy-basierte Management-Konzepte der IETF".

WS 99/00: Advanced seminar, grading „Sehr gut"

"Komplexe Objekte in Datenbanken" (Lehrstuhl für Datenbanksysteme). Title of the talk: "Dimensionsreduzierung zur Ähnlichkeitssuche in dynamischen Datenbanken".

Publications

- M. Garschhammer and C. Neu: "Using Unified Properties of Data-Flows as a Generic Basis to describe QoS-parameters". In 9th International Workshop of the HP OpenView University Association (HPOVUA 2002), June 2002.
- C. Neu: "Des Pudels Kern. Architektur und Implementation des BSD-Unix". In freeX, 1'99.
- C. Neu: "Es muss nicht immer Linux sein. FreeBSD - die verkannte Alternative?". In freeX, 4'98.

Hobbies

Virtual reality, virtual worlds (Second Life), 3D printing, 3D modeling (Zbrush, Modo), fashion design.