

CORNELIU-CLAUDIU PRODESCU

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Nationality: Romania
Date of Birth: 04/08/1990
Place of Birth: Bailesti, Romania

Education

09/2012 to 06/2014 **Jacobs University, Bremen, Germany**
MSc in Computer Science.
09/2009 to 06/2012 **Jacobs University, Bremen, Germany**
BSc in Computer Science.
GPA: 1.13 (1.07 within major) on a scale from 1.00 (4.33, A+) to 5.00 (0.00, F).
09/2011 to 12/2011 **Carnegie Mellon University, Pittsburgh, PA, USA**
Exchange student in the Computer Science Department.
QPA: 4.0/4.0
09/2005 to 06/2009 **Carol I National College, Craiova, Romania**
Secondary education with emphasis on Mathematics and Computer Science.
GPA: 10.0/10.0

Research and Teaching

08/2010 to 09/2014 **KWarc research group, Jacobs University, Bremen**
Knowledge **Ad**aptation and **Re**asoning for **C**ontent research group. I was the main developer of the **MathWebSearch** project. MathWebSearch is a content-based search engine for mathematical formulae. It indexes mathematics represented as **MathML**. The code base includes C++, bash and NodeJS. We use LibXML, cURL, LevelDB, ICU unicode, and MicroHTTPd APIs. To see available demos, see <http://search.mathweb.org/>.
02/2012 to 06/2012 **Teaching Assistant - 320202 Operating Systems, Jacobs University, Bremen**
Topics included basic computer architecture, system calls and interrupts, concurrency and synchronization, virtual memory, file systems and socket programming. The job implied creating original assignments, guiding students through solutions, as well as grading homeworks, quizzes and exams.
02/2012 to 06/2012 **Teaching Assistant - 320232 Operating Systems Lab, Jacobs University, Bremen**
Topics included C programming in user space (multi-threading, signal handling, basic networking, memory allocator), as well as kernel space (simple virtual devices supporting concurrent I/O, both blocking and non-blocking). The job implied guiding students through lab assignments, as well as grading homeworks and quizzes.
09/2010 to 06/2011 **Teaching Assistant - 32010[12] General Computer Science, Jacobs University, Bremen**
Topics included Discrete Mathematics, functional programming, search algorithms, logic gates and Turing Machines. The job implied holding weekly tutorials, creating original problems, as well as grading homeworks, quizzes and exams.

Practical Experience

10/2014 to date **Software Engineer at Twitter Inc., San Francisco, CA**
Working in the Growth team.
06/2013 to 09/2013 **Software Engineer Intern at Twitter Inc., San Francisco, CA**

Worked in the Growth team. I implemented a number of user interfaces to show user suggestions as a result of a follow action in the Android Twitter App. Other tasks included an analytics dashboard and the Hadoop pig logic which generated its data. Programming was done using Java Android, pig, JavaScript.

06/2012 to 09/2012 [Software Engineer Intern at Facebook Inc., Palo Alto, CA](#)

Worked in the [TAO](#) caching layer team. I implemented a server-side feature to invalidate a portion of the cache on a running host. Also, added a script which drives a full-tier invalidation adapting the speed based on various stats (like database iops, client timeouts). Next, I worked on a journal for asynchronous requests, a tool which detects stale type schema changes and unit test runtime optimizations. Most of the implementations used C, with some bash and PHP.

09/2011 to 12/2011 [15-410 Operating System Design and Implementation, Carnegie Mellon, Pittsburgh](#)

The course taught software design concepts in the Operating Systems environment. The projects involved implementing an x86 stack crawler, an user-space threading library and an operating system with features like: multi-threading, dynamic process loading, memory protection, round-robin scheduling and drivers for keyboard and video console. Programming was done in pairs using C and x86 assembly.

12/2010 to 07/2011 [Research Assistant at DFKI, Bremen](#)

06/2010 to 08/2010 Worked on packaging [Hets](#) - Heterogeneous Tool Set software for Ubuntu/Debian. The resulted packages are available on Launchpad in the [Hets Ubuntu Repository](#). Other tasks included testing and patching the core implementation and developing scripts for nightly builds and auto-updates. The main development language was bash, along with some Haskell, C++, Java.

Extracurricular Activities

01/2011 to date [Computer Science Club, Jacobs University, Bremen](#)

Vice-president of the Jacobs University Computer Science Club. Activities include organizing biweekly presentations, coding sessions, tutorials, as well as meetings with faculty, alumni and outside representatives.

09/2009 to 06/2011 [Linux Club, Jacobs University, Bremen](#)

Vice-president of the Linux Club. Started as a member in September 2009, experimenting with Linux and soon became proficient and started providing active support for installs and configuration. Also, developed some utility scripts for Jacobs specific needs (like VPN access and LDAP search in the students database). Familiar with most common distributions: Debian, Ubuntu/Kubuntu, ArchLinux, OpenSUSE

Skills and Achievements

Languages: Romanian (native), English (fluent), German(basic), French (basic)

Programming: Proficiency in C
Good knowledge of C++, JAVA, bash/sh, Python, Assembly x86, MATLAB, Mathematica, SML, Prolog

Basic knowledge of PHP, JavaScript, perl

Tools: Git, Subversion, GNU Make, CMake, Perforce Jam, L^AT_EX

Awards: Member of President's List, Jacobs University, 2010 - 2012 (GPA range 1.0 - 1.5)

Member of Dean's List, Carnegie Mellon University, Fall 2011 (QPA range 4.0 - 3.75)

Medals at National Mathematical Olympiad (Gold: 2004, 2006, 2007 and Silver: 2005, 2008)

Silver medal - 14th Tuymaada Olympiad on Mathematics, Yakutsk, Russia (2007)

Gold medal - 2nd Zhautykov Olympiad on Mathematics, Alma Ata, Kazakhstan (2006)

Gold medal - the Junior Balkan Mathematics Olympiad, Veria, Greece (2005)

Interests: Programming, Mathematics, Table Tennis, Chess