NIELS JOUBERT

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EDUCATION

University of California, Berkeley (2005 – present, Berkeley, CA.)
B.Sc. Honors in Electrical Engineering and Computer Science (EECS), expected graduation: 2009.
Cumulative GPA: 3.9 (Aug 2005 - current)

Los Altos High School, Grade 12 (2005, Los Altos, CA.)
Graduated Valedictorian, Cumulative Unweighted GPA: 4.0

Paul Roos Gymnasium, Grade 8 – 11 (2001 – 2005, Stellenbosch, South Africa.)
Honored as best scholar 4 semesters running, Cumulative grade: 108%

SKILLS

Web Development using RubyOnRails, JavaScript, HTML, CSS, AJAX.

Software Development using C, MIPS assembly, Java 5 & Junit, CVS/Subversion, Scheme and Visual Basic.

Skilled in object-oriented, functional, event-driven and MVC programming paradigms.
Ability to develop in Windows, Linux and Solaris environments using Emacs and Eclipse.
Strong and recognized interpersonal and verbal/written communication skills.

PROJECTS

TheCafeTable.com Initiate and develop a Web-based portal and organizational site for Berkeley students, presenting a unified, customizable interface to Berkeley's academic resources and other web services.

Solver for constraint problems, used to analyze logical word problems through combinatorics.

Particle Simulator using custom Quadtree data structure to enable $O(\log4(n))$ lookup of objects, handling upwards of 10 000 data points in a real-time graphical simulation.

Board Game development using Game Tree algorithms to implement quasi-intelligent computer players and remote playing capabilities over TCP networks.

Software controlled robotic tripod manipulating stepper motors using software-generated impulses translated to analog signals using self-designed hardware.

WORK EXPERIENCE

Yahoo! Research Berkeley, Spring 2007 – present: Intern responsible for design, implementation and integration of video-related project as advance prototype. (Exact information is confidential)

The Café Table.com, Spring 2006 – present: Co-founder of web-based startup (see projects). (http://www.thecafetable.com/)

Berkeley Supernova Research Team, June 2006 – present: Image analysis to detect new supernova.

UC Berkeley New Student Services, Jan 2006 – August 2006: Cal Student Orientation counselor, responsible for facilitating teams and leading groups of new freshman and transfer students through several two-day programs to acquaint them with UC Berkeley. (http://calso.berkeley.edu/)

TIDE Productions, Jan 2003 – Jan 2006: Involved in 5 film productions, including a DVD that was used for the successful application to the position of Conductor at the Vancouver Conservatoire.

Webmaster at Paul Roos Gymnasium, Jan 2003 – Des 2005: Web Design team leader, responsible for upgrading website and increasing traffic 10 fold. (http://www.paulroos.co.za/)

HONORS, AWARDS & RECOGNITION

07 – Accepted into Berkeley's B.Sc. Honors Degree program
06 - Yahoo! University Hack Day winner at UC Berkeley.
06 - Golden Key Club nominee as a student in the top 5% of Berkeley.
06 - Recipient of William B. Slottman Award as the best counselor for incoming students.
05 - Chancellor's Honors for outstanding academic achievement at UC Berkeley.
02 - Gold Medal in Expo for Young Scientists, recipient of Electrical & General Engineering prizes.

INTERESTS

Mountain Biking, Snowboarding, Music (Violin and Bass Guitar), Amateur Radio, Videography