Niels Joubert

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Education

- **University of California at Berkeley**, Berkeley, CA. Cumulative GPA: 4.0
  B.S. in Electrical Engineering and Computer Sciences, expected graduation: 2009.
- **Los Altos High School, Grade 12**, Los Altos, CA. Graduated Valedictorian, GPA 4.0
- **Paul Roos Gymnasium, Grade 8 – 11**, Stellenbosch, South Africa. Honored as best scholar 4 semesters running, Cumulative grades: 108%

Skills and Experience

- **Web Development** using RubyOnRails, JavaScript, HTML, CSS, MySQL, AJAX, XML-RPC, REST and screen-scraping.
- **Software Development** using Java5, Junit testing, CVS/Subversion, Lisp/Scheme and BASIC/Visual Basic.
- Skilled in object-oriented, functional and MVC programming paradigms. Comfortable with data structure design and optimization, threaded programming, documentation generation and multifaceted team project design.
- Comfortable in Windows, Linux and Solaris environments using Emacs and Eclipse.

Projects
- Web-based portal and organizational site for Berkeley students, involving interfaces to Berkeley's academic resources and web-based
- Logical Constraint problem solver to analyze word problems.
- Particle Simulator using Quadtree data structure to enable O(log4(n)) lookup of objects, handling upwards of 10 000 datapoints in real-time graphical simulation.
- Network-enabled board game using Game Tree algorithms to implement quasi-intelligent computer player and remote playing capabilities over TCP networks.
- Software controlled robotic tripod - manipulating stepper motors using software-generated impulses translated to analog signals using custom-designed hardware.

Work Experience

- **The Café Table.com, Spring 2006 – present:** Co-founder of web-based startup focusing on integration of online technologies and portal services to present a unified, customizable interface for Berkeley Student's academic and social lives. (http://thecafetable.com/)
- **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/)
- **UC Berkeley New Student Services, Jan 2006 – August 2006**: Cal Student Orientation counselor, responsible for facilitating and leading groups of new freshman and transfer students through several two-day programs to acquaint them with UC Berkeley.
- **TIDE Productions, Jan 2003 – Jan 2006**: Involved in 5 successful film productions, including production of a DVD that was recently used for the successful application to the position of Conductor at the Vancouver Conservatoire.

Activities and Interests
- **Cal Linux User Group Member**
- **Musician:** an accomplished violinist and bass guitarist.
- **Radio Amateur:** Licensed radio amateur & member of the American Radio Relay League.
- **Photographer and Cinematographer**

Honors, Awards, Recognition

- Yahoo! University Hack Day winner at UC Berkeley.
- Golden Key Club nominee as a student in the top 5% of Berkeley.
- Chancellor's Honors for outstanding academic achievement at the University of California at Berkeley.
- Gold Medal in Expo for Young Scientists, Electronical Engineering and General Engineering prizes.