Niels Joubert

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Education

- **University of California at Berkeley**
  B.S. in Electrical Engineering and Computer Sciences, expected graduation: 2009.
  Cumulative GPA: 4.0
- **Los Altos High School, Grade 12:** (Los Altos, CA), Graduated Valedictorian, GPA 4.0
- **Mountain View Adult Education Center: (Mountain View, CA)** concurrent enrollment while attending Los Altos High School.
- **Paul Roos Gymnasium, Grade 8 – 11:** (Stellenbosch, South Africa)

Skills and Experience

- **Web Development** using RubyOnRails, MySQL, HTML, CSS, JavaScript, AJAX, XML-RPC, REST and screen-scraping.
- **Software Development** using Java5, Junit testing and UNIX build environment
- **Operating System/Tools** comfortable in Windows, Linux and Solaris development environments using Emacs and Eclipse.

Projects
- Logical Constraint problem solver to analyze word problems.
- Particle Simulator using Quadtree data structure to enable $O(\log 4(n))$ 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.
- Web-based portal and organizational site for Berkeley students, involving interfaces to Berkeley's academic resources and web-based

Employment history

- **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/)
- **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 the academic, professional and social atmosphere of the University of California at Berkeley.
- **TIDE Productions, Jan 2003 – Jan 2006**: Involved in 5 successful DVD productions, repeatedly contracted by the *Stellenbosch Youth Orchestra,* and produced a DVD that was recently used for the successful application to the position of Conductor at the Vancouver Conservatoire.

Activities on and off campus
- **Web Developer**
- **Cal Linux User Group Member**
- **Musician:** an accomplished violinist and bass guitarist.
- **Radio Amateur:** Licensed South African radio amateur, member of the American Radio Relay League.
- **Photographer and Cinematographer**

Service & Leadership Experience

- **Volunteer webmaster & team leader, Paul Roos Gymnasium:** volunteered as webmaster at Paul Roos Gymnasium in 2003, became team leader January 2004. Received Pro Merito award for exceptional service, increased traffic 10 fold.
- **SunSTEP engineering for youth, 2000 – 2004:** Alumnus of SunSTEP program, designed to create opportunities for formerly disadvantaged youth to participate in electrical engineering projects. Lab Assistantship and general member of SunSTEP during all 4 years.
- **BARK Amateur Radio Club, Presentation host & technology implementer, 2001 – 2003:** Introduced technology advances through lectures and public demonstrations. Successful implementation and demonstration of said technologies bought about repeat lectures at various clubs and employment of techniques in emergency communication systems.
- **Cal Student Orientation counselor:** Group leader and facilitator for incoming students, networking with 45 other counselors and 200+ incoming students.

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 in the first semester at the University of California at Berkeley.
- Twice-received Richard G. Bell Memorial Scholarship for academic achievement, 2005
- National Dean's List member.
- California Mathematics Council prize for Excellence in Mathematics, 2005
- Bill Alheid award for number one scholar, Paul Roos Gymnasium, 2004
- Gold Medal in Expo for Young Scientists, Electronical Engineering and General Engineering prizes, 2002