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Education

Stanford University, Stanford, CA Technical GPA: 3.67
Expected: B.S. Electrical Engineering Graduation Date: June 2009
Expected: M.S. Electrical Engineering Graduation Date: June 2010
Illinois Math and Science Academy, Aurora, IL Graduation Date: June 2005
SAT I: Verbal 790 Math 800; National Semi-finalist in the Intel Science Talent Search

Experience

Summer 2008 **Cooliris, Inc.** Palo Alto, CA
Software Developer

- One of five people responsible for coding and debugging the backend structure of a product known as "Discover." Made extensive use of the PHP (server-side scripting) and SQL programming languages.
- Created the backend structure leveraged by the Cooliris iPhone app.

Summer 2007 **NorthStar Realty Finance Corporation** New York, NY
Summer Analyst, Securities Trading Group

- Helped develop a model that allows NorthStar to analyze the performance of, identify potential liquidity problems with, and simulate spread widening/tightening scenarios for its hedge fund.
- Wrote a program that allows NorthStar to quickly assess how the capital structure of its collateralized debt obligations (CDO's) are changed by the addition of new assets to the CDO.

Summer 2006 **MIT's Institute for Soldier Nanotechnologies (ISN)** Cambridge, MA
Researcher in Photonics & Nanotechnology with Dr. Steven Kooi

- Demonstrated the first reported case of silicon/titania photonic crystals fabricated via holographic interference lithography.
- Attempting to publish research after further experiments have been conducted.

Summer 2003-05 **Northwestern University Materials Science & Engineering Department** Chicago, IL
Researcher in Inorganic Nanotechnology with Professor Vinayak P. Dravid

- Successfully developed a method to increase magnetic nanorod density by over 600 times (potential applications in hard drive technology).
- Published research in the *Journal of Applied Physics*: "Controlled large-scale synthesis and magnetic properties of single-crystal cobalt nanorods," *Jour. Appl. Phys.*, **98**(7): 074311 (2005).
- Gained expertise in the use of the Scanning Electron Microscope, Atomic Force Microscope, Transmission Electron Microscope, Superconducting Quantum Interference Device Magnetometer, and other tools.
- Logged in excess of 1500 hours in the laboratory.

November 2004 **Siemens-Westinghouse Competition in Math, Science, and Technology** Notre Dame, IN
Oral Presenter and Competitor - University of Notre Dame

- Selected as one of thirty finalists from around the country to deliver an oral presentation of nanotechnology research to a panel of recognized scientists specializing in nanotechnology. Ranked 3rd individually.

Summer 2004 **3rd Asian Pacific Economic Cooperation (APEC) Science Conference** Beijing, China
Official United States Representative – Student Researcher

- Chosen as one of twenty "promising young scientists" from around the USA by the American Association for the Advancement of Science (AAAS) to present work at an international research conference organized by the Chinese government, attended by 19 countries.
- Presented research before an audience of more than 3000 students, scientists, and politicians.

Extracurricular Activities

2008 - Present **Swavv Apps** Stanford, CA
Co-founder and developer at Swavv Apps

- Co-founded Swavv Apps, a company that creates iPhone apps. We currently consist of 3 developers (including myself), and are looking to expand further. Please see our website at <http://www.swavv.com>.
- As of December 2008, Swavv Apps has sold over 150,000 apps in 60+ countries.

2003 – Present **Invention as a Pastime** Chicago, IL & Stanford, CA
Amateur inventor – Attempting to solve problems that have not received enough attention

- The following utility patents have been filed with the US Patent and Trademark Office:
 - 1) Efficient Rail Track Cleaning System – An apparatus that automates the cleaning process and significantly improves the cleaning efficiency of train railroad tracks. Filed 09/29/2003; Application Number 10/605413.
 - 2) Passive Energy Conservation System – A simple, cost-effective, passive system for conserving energy during the hot, summer months for any small building. Filed 12/08/2003; Application Number 10/707350.

Additional Information

Programming Languages: C++, C, Java, PHP, SQL, Visual Basic, HTML, MATLAB, HSPICE, Verilog.