Matthew Francis-Landau

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Objective

To have a positive impact on a growing company who is dedicated to helping users through data analysis while furthering experience in professional work environments.

Education

First year undergraduate at UC Berkeley, Computer Science and Mathematics major.
High school at California Academy of Math and Science, unweighted GPA: 3.8.
Completed 50 college units during high school, currently completed 66.

Experience

Technical Intern, Motion Picture Marine, Venice CA — Summer 2011

- Developed vibration detection and elimination method using fourier transformation and automatic PID gain adjustment.
- Debugged hardware and software issue relating to mass production of Perfect Horizon units.
- Co-authored grant to develop high school robotics program under Office of Naval Research (ONR).
- Designed technologies for remote internet connection and upgrades to in field units.

Leadership Experience

Project Manager, Red Inc. — 2011-2012

- Led team of 15 high schoolers to develop spherical flying robot.
- Manufactured custom propellers to meet size requirements of 10 inches.
- Produced three different technical documents: Project proposal, Proof of concept, Manual/product documentation.

Programming Leader, Nerd Herd Robotics team — 2010-2012

- Trained 120 students in basic robotic programming.
- Converted team from 3 different GUI programming environments to C/C++ based systems.
- Mentored middle school students in basics of build robots for competition.

Projects

JSApp.us — November 2010 to Today

- First open registration Node.js hosting platform.
- Features online code editor and live online testing.
- Enables trying the Node.js platform out quickly without installing anything.

i-Lang — Summer 2012 to Today

- New programming language based around a function programming paradigm.
- Functions, classes, objects are viewed as “anonymous,” variables only provided a means for accessing what was previously defined.
- Language was designed to study paradigm of self modifying code at a level higher than assembly.
- Features an integrated database for ease of use when working with data.
- Future plans for developing network distribution system to enable working with large data sets in parallel.

Computer Skills

Highly Proficient at:	C++, JavaScript
Technologies:	Linux, Node.js, MonogoDB, Tokyo Tyrant, Arduino, Mbed, Mathematica, Hadoop, Java, LaTeX