

# Alexander S. Kern

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## Computer Skills

- Extremely proficient in client-side web technologies (HTML/CSS/JavaScript)
- Highly experienced with back-end web development in Ruby on Rails and Node.js
- Well versed in relational and non-relational databases
- Proficient with Java, Objective-C, Adobe Photoshop and Adobe Illustrator

## Work Experience

### **NASA Jet Propulsion Laboratory Intern, Ops Lab** - [June - August 2011]

- Developed patent-pending software to enable extremely durable storage on the cloud
- Gave a live-broadcast JPL-wide presentation on cloud architecture
- Presented at eoAlchemy (<http://eoalchemy.com>), one of Los Angeles's largest entrepreneurial conferences
- Coauthored an IEEE paper on cost-effective cloud storage solutions

### **NASA Jet Propulsion Laboratory Intern, Motor Testing Division** - [June - August 2010]

- Helped test the motor controller of the Mars Science Laboratory, the next Mars rover
- Gave a talk at JPL about domain-specific languages and their use in testing

### **Artcentric Networks Lead Developer** - [April 2010 - July 2012]

- Lead web developer of location-based web service Check2 (<http://check2.com>)
- Developed the backend in Ruby on Rails and Node.js
- Created front-end iPhone, Android, and web applications
- Managed local and international development team

### **BHHS Robotics Team Leader** - [December 2007 - June 2012]

- Joined high school robotics team (<http://bhrobotics.com>) in 8th grade
- Programming and Website Captain for 3 years, Team President for 2 years
- Helped team win internationally-recognized awards such as the Motorola Quality Award, Innovation in Control Award, and Chairman's Award

### **Freelance Web Designer** - [August 2008 - June 2011]

- Designed and developed over 20 websites for both friends and clients
- Responsible for the entire design from wireframe to completion

### **PlanetBravo Summer Camp** - [June to August in 2008 and 2009]

- Developed and taught Robotics curriculum to elementary school-age campers
- Assisted Game Design and Web Design instructors with teaching courses
- Designed advanced scripts for use with Torque Game Builder

## Education

- Freshman studying Computer Science at the University of California, Berkeley
- Beverly Hills High School class of 2012

References available upon request.