

# ALEXANDER S. KERN

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## EDUCATION

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**UNIVERSITY OF CALIFORNIA, BERKELEY**  
*Computer Science Major (4.0 GPA)*

Berkeley, California  
August 2012 to May 2016

## WORK EXPERIENCE

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**APPLE INC., INFORMATION SYSTEMS & TECHNOLOGY**  
*Software Engineering Intern*

Cupertino, California  
May 2013 to Present

**NASA JET PROPULSION LABORATORY, OPS LAB**  
*Software Engineering Intern*

Pasadena, California  
June 2011 to August 2011

- Developed highly-available backup software to enable durable cloud storage for Jet Propulsion Laboratory's (JPL) satellites and Spirit and Opportunity Mars rovers
- Gave separate presentations about cloud data storage strategies at JPL and EO Alchemy ([coalchemy.com](http://coalchemy.com)), one of Los Angeles's largest entrepreneurial conferences
- Coauthored an IEEE paper on cost-effective cloud storage solutions

**NASA JET PROPULSION LABORATORY, MOTOR TESTING DIVISION**  
*Software Engineering Intern*

Pasadena, California  
June 2010 to August 2010

- Helped test the motor controller of the Curiosity Mars Rover by automating unit testing workflows
- Presented to JPL computer scientists on domain-specific languages and their applications in testing

**ARTCENTRIC NETWORKS LLC**  
*Chief Technology Officer*

Santa Monica, California  
April 2010 to July 2012

- Lead developer of mobile application Check2 designed to provide frequent restaurant-goers with deals
- Developed back-end Ruby on Rails application along with front-end iPhone, Android, and web apps
- Managed local and international development team of 7 people over the course of 2 years

**FREELANCE WEB DEVELOPMENT**  
*Freelancer*

Beverly Hills, California  
August 2008 to June 2011

- Designed and developed over 20 websites for clients including photographers and interior designers
- Responsible for the entire design from wireframe to completion, including interactive animations

**PLANETBRAVO SUMMER CAMP**  
*Assistant Camp Director*

Beverly Hills, California  
June 2008 to August 2009

- Developed and taught Robotics curriculum to elementary school-age campers, teaching 20 students a week how to build and program their own personal robot
- Aided Game Design and Web Design instructors as a teaching assistant

## SKILLS

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9 years of experience using client-side web technologies (HTML/CSS/JavaScript)  
7 years of software development in Ruby, Java, Node.js, PHP, Python, Clojure, C, C++, and Objective-C  
Proficient in database management of MySQL, PostgreSQL, Redis, MongoDB, CouchDB, and Riak

## ACTIVITIES & INTERESTS

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**Activities:** Technical Chairman for Alpha Epsilon Pi, Mentor for the Beverly Hills High School Robotics Team  
**Interests:** International travel, music production, cycling, typography, and modern art