

# ALEXANDER S. KERN

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## Education

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**University of California, Berkeley**  
**Computer Science Major (4.0 GPA)**

*Berkeley, CA*  
*August 2012 to May 2016*

## Work Experience

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**NASA Jet Propulsion Laboratory, Ops Lab**  
**Software Engineering Intern**

*Pasadena, California*  
*June 2011 to August 2011*

- Developed highly-available backup software to enable durable storage on the cloud
- Gave a live-broadcast presentation to JPL employees on cloud architecture
- Presented at EO Alchemy (<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, Motor Testing Division**  
**Software Engineering Intern**

*Pasadena, California*  
*June 2010 to August 2010*

- Helped test the motor controller of the Curiosity Mars Rover by developing new unit testing strategies
- 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 restaurant loyalty program Check2
- Developed back-end in Ruby on Rails and Node.js
- Created front-end iPhone, Android, and web applications
- Managed local and international development team of 7 people

**Freelance Web Development**  
**Freelancer**

*Beverly Hills, California*  
*August 2008 to 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**  
**Assistant Camp Director**

*Beverly Hills, California*  
*June 2008 to August 2009*

- Developed and taught Robotics curriculum to elementary school-age campers
- Assisted Game Design and Web Design instructors with teaching courses

## Skills

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9 years of experience using client-side web technologies (HTML/CSS/JavaScript)

6 years of back-end web development in Java, Ruby, and Node.js

Proficient in both relational and non-relational databases including PostgreSQL, Redis, and MongoDB

## Activities

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Website and Internet Chairman for the Alpha Epsilon Pi Fraternity

*December 2012 to Present*

Mentor for the Beverly Hills High School FIRST Robotics Team

*June 2012 to Present*