ALEXANDER S. KERN

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Education

University of California, Berkeley — *Berkeley, CA*
Computer Science Major (4.0 GPA) — *August 2012 to May 2016*

Work Experience

NASA Jet Propulsion Laboratory, Ops Lab — *Pasadena, California*
Software Engineering Intern — *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 — *Pasadena, California*
Software Engineering Intern — *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 — *Santa Monica, California*
Chief Technology Officer — *April 2010 to July 2012*

- Lead developer of restuarant 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 — *Beverly Hills, California*
Freelancer — *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 — *Beverly Hills, California*
Assistant Camp Director — *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

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

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*