

ALEXANDER S. KERN

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EDUCATION

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

Berkeley, CA
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 cloud storage for Jet Propulsion Laboratory's (JPL) satellites and Spirit and Opportunity Mars rovers
- Gave separate presentations at JPL and at EO Alchemy (<http://eoalchemy.com>), one of Los Angeles's largest entrepreneurial conferences, about cloud data storage strategies
- 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 automating unit testing workflows
- 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 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

Beverly Hills, California

Freelancer

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

Beverly Hills, California

Assistant Camp Director

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

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

Activities: Internet Chairman for Alpha Epsilon Pi, Mentor for the Beverly Hills High School Robotics Team

Interests: International travel, music production, cycling, typography, and modern art