

# Benjamin Marimon

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## EDUCATION

08/13-Present **UNIVERSITY OF CALIFORNIA, BERKELEY**  
B.S. Electrical Engineering and Computer Science  
GPA – 3.32

***Expected Graduation: May 2017***

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## PROFESSIONAL EXPERIENCE

05/15-8/15 **Rambus**  
*Cryptography Research Division & IT Infrastructure Intern*

- Wrote Python scripts to collect data from the company's compute servers, built a web app to aggregate and graph the data in real time
- Worked on developing a web dashboard to display analytics from CRD department systems

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## PROGRAMMING PROJECTS

### **Innovative Design (Meteor.js) (Personal Project)**

- Redesigned the website for Innovative Design, a student-lead creative organization
- Built a content management system to render from and upload design work to Amazon S3 servers

### **Spark MapReduce (Python)**

- Designed algorithm to solve for the most efficient solution to a sliding puzzle game
- Implemented multi-threaded version of the algorithm with Spark on Amazon EC2 servers

### **Hardboiled (Node.js) (Personal Project)**

- Redesigned the website of a magazine, Hardboiled, using the open source blogging tool, Ghost
- Modified existing content management system, augmented user/admin permissions
- Worked on frontend UI/UX with other designers

### **Resistor Finder (Java) (Personal Project)**

- Built an algorithm to calculate resistance values based on resistor bands, or calculate the correct band order to achieve a certain resistance
- Implemented an interactive GUI for users

### **Huffman Encoding (Java)**

- Implemented the Huffman compression/decompression algorithm for individual files from scratch
  - Designed and implemented an algorithm to allow users to (de)compress directories and their contents
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## ORGANIZATIONS

05/15-Present **Innovative Design**

*VP of Technology, Web Tier Leader*

- Lead a team of web developers to design and develop websites for campus organizations
- Teach web development basics and UI/UX design principles to a class of students
- Build and manage websites for design events hosted by Innovative Design

05/15-Present **Institute of Electrical and Electronics Engineers**

*Director of Industrial Relations*

- Communicate and network with campus organizations and companies
  - Coordinate infosessions, tech talks, and the biannual student-led Startup Fair for students
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## COURSEWORK

- Structure and Interpretation of Computer Programs
- Data Structures and Algorithmic Analysis
- Machine Structures
- Introduction to Artificial Intelligence
- Introduction to Database Systems
- Efficient Algorithms and Intractable Problems

**PROGRAMMING LANGUAGES:** Java, Python, C, Ruby, SQL, MIPS

**WEB DEVELOPMENT:** HTML/CSS, JavaScript, Meteor.js, Node.js, jQuery

**SKILLS:** Python scripting, JUnit testing, Git, Material & Flat Design