SOPHIA COOPER  
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Experience

**Sept 2015- Mentor, Breakout Mentors, Berkeley, CA**

* One-on-one tutor for students with an interest in computer science
* Aided students in designing and completing programs in Scratch and Python

**2015 Tech Instructor, iD Tech, Berkeley, CA**

* Responsible for teaching classes in Scratch, Python and JavaScript
* Instructed 8-student classes and led various camp activities

**2014 Mentor, TechGyrls, Oakland, CA**

* Mentored elementary school girls in underfunded areas in Oakland.
* Organized and led science and technology projects in the classroom.

**2013, 2014 Counselor, Skylake Yosemite Camp, Bass Lake, CA**

* Cared for children ages 8-14 in an 8-week residential sleepaway summer camp
* Kayak and Ropes Course Instructor and Lifeguard

**2015 Barista and Bartender, Studenterhuset, Copenhagen, Denmark**

* Served espresso and coffee drinks and alcoholic beverages

Education

**2012-2016 University of California, Berkeley**

BA in Cognitive Science, minor in Computer Science, GPA 3.5

**Spring 2015 University of Copenhagen, Denmark**

Technical Skills

Programming Languages: Java, C, Python, JavaScript, Snap!, HTML, CSS, Swift/iOS, Ruby

Computer Science Classes:

* The Beauty and Joy of Computing – CS 10
* Structure and Interpretation of Computer Programs – CS 61A
* Data Structures – CS 61B
* Great Ideas in Computer Architecture – CS 61C
* Discrete Mathematics and Probability Theory – CS 70
* Computer Security – CS 161
* Artificial Intelligence – CS 188
* Software Engineering – CS 169
* iOS Decal and Snap! Below the Line Decal

Projects

**Snap Dev –** Implementing bug fixes, adding new features, and navigating the large JavaScript codebase for this beginner drag-and-drop coding language.

**ChatApp** – A simple chat application using node.js and socket.io with a blacklist of bad words.

**RSA** – A C program that generates, encrypts, and decrypts keys using the RSA cryptosystem.

**Cryptocurrency** – A program in C that implements parts of a Bitcoin-like cryptocurrency.

**Hidden Service Chat –** An anonymous chat room that uses Tor hidden services.

**AI Search –** Implementing DFS, BFS, A\* Search, and Iterative Deepening in a Pacman game.

**Displacement –** Simulating depth perception in bitmap images by calculating pixel movement.

**MapReduce –** Using MapReduce to optimize BFS traversal using the Apache Spark Framework

**See more projects at github.com/sophiecooper**