

# Sumer Kohli

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## EDUCATION

### UC Berkeley (2018-present)

Electrical Engineering & Computer Sciences

B.S. in Computer Science

Expected Grad.: May 2022

### The Harker School (2014-2018)

Grad. May 2018

Cum. GPA: 4.55 of 4.80

4-time Honor Roll

## SKILLS

### Languages:

C/C++, Python, JavaScript/Node.js, Go, Swift, Java, Objective-C, Shell, Mathematica, NumPy & SciPy, R

### Frameworks:

React, AngularJS, Vue.js

### Databases:

MongoDB, MySQL, PostgreSQL

## AREAS

### Front-End:

Web Development  
Responsive Design  
REST & JSON API's  
Data Visualization  
HTML5 / CSS3

### Back-End:

Server-Client  
Microservices  
Cloud Computing  
Operating Systems  
Compilers & Interpreters  
Scientific Computing

## ACTIVITIES

USACO Gold Competitor  
HackerCTF, Board Member  
Tech. Student Assn., Director

## EXPERIENCE

### Nutanix Inc. – Foundation

Jun 2017 – Aug 2017

Software Engineer Intern

San Jose, CA

- Enhanced logging reliability for virtual cluster imaging
- Implemented a data exfiltration solution in foundational Python code to enable anonymized callhome streams

### Realization Technologies Inc.

Jun 2016 – Aug 2016

Software Dev. Contractor

Cupertino, CA

- Wrote a web platform to efficiently profile and match local employers and college students based on their preferences
- Built with AngularJS, jQuery UI, and appery.io database & IDE

### Nutanix Inc. – CE Analytics

Jun 2015 – Aug 2015

Software Engineer Intern

San Jose, CA

- Developed an efficient Python-based database to process and store product telemetry
- Built a tool to analyze product telemetry with a full-featured web interface for easy tabulation and analysis

## PROJECTS

### SCE Chess ♟

A highly performant C++ chess engine rated around 2000 ELO – or able to beat an estimated 97-98% of chess players.

### Cobra Compiler ♾

An optimizing compiler able to fully compile my very own object-oriented, Turing-complete programming language.

### Sumer's OS

A Unix-like mini-operating system with scheduling and multitasking support, able to run code in user land. Provides a (nearly) POSIX-compliant environment and libc implementation.

### HackMirror 2nd Place, HarkerHacks 2018

The smarter smart mirror, replete with facial recognition, voice commands, voice calling functionality, and more. Built with Python-OpenCV, Firebase, and Alexa Voice Services (AVS).

### RecMatcher

A web platform written for my high school to match students seeking and teachers providing letters of recommendation. Built with Firebase, Node.js, and Bootstrap.