

Sumer Kohli

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EDUCATION

UC Berkeley (2018-present)

Electrical Engineering & Computer Sciences
Expected Grad.: May 2022
Regents Scholarship Finalist

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

VR@Berkeley
Data Science Society
EnableTech@Berkeley

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 a performant Python-based back-end to process and store over 1 million product telemetry data points a day
- Built a fully-featured web interface to efficiently analyze, tabulate, and visualize said product telemetry in near real-time

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.

Symbolic Differentiator ♾

A web interface to take partial derivatives of arbitrary functions instantaneously. Handles extremely complex input functions with ease. Built with Scheme (Lisp dialect), Jekyll, and Firebase.

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).