

Sumer Kohli

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EDUCATION

UC Berkeley (2018-present)

Electrical Engineering & Computer Sciences

GPA: 4.00

Grad. Date: May 2022

Regents Scholarship Finalist

The Harker School (2014-2018)

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

- Greatly improved logging reliability, reducing potential for catastrophic data loss during virtual cluster imaging
- Implemented anonymized callhome streams in foundational product code for mission-critical data

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
- Used by over 50 local companies over product's lifetime

Nutanix Inc. – CE Analytics

Jun 2015 – Aug 2015

Software Engineer Intern

San Jose, CA

- Developed a performant back-end to process and store over 1 million product telemetry data points a day that were otherwise discarded
- 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, handling extremely complex input with ease.

HackMirror 2nd Place, HarkerHacks 2018

The smarter smart mirror, replete with facial recognition, voice commands, voice calling functionality, and more.