

# Shelvin Singh

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, BERKELEY

B.S. in ELECTRICAL ENGINEERING & COMPUTER SCIENCE

Dec '18 | Berkeley, CA College of Engineering

### SIERRA COLLEGE

Transferred Fall '16

Engineering • Mathematics • Physics

## LINKS

Github:// [OskiTheCoder](#)

LinkedIn:// [Shelvin](#)

## COURSEWORK

### UNDERGRADUATE

Artificial Intelligence

Circuit Theory

Computer Architecture

Data Structures

Databases

Designing Information Systems I, II

Efficient Algorithms

Networking

Quantum Mechanics

Security

## SKILLS

### PROGRAMMING

C# • Django • Git •

Go • Java • JavaScript •

.NET • NumPy • Pandas •

Python • SQL • Swift • SVN •

### MATHEMATICS

Differential Calculus

Differential Equations

Discrete Mathematics

Elementary Statistics

Integral Calculus

Linear Algebra

Multivariate Calculus

Probability Theory

## EXPERIENCE

### ORCHESTRADE | SOFTWARE ENGINEER

Dec 2018 - Present | San Mateo, CA

- Implemented various trade and transaction file layouts according to the prime broker's specification.
- Developed enhancement requests pertaining to the business logic of financial assets, derivatives, and products.
- Monitored and identified regressions during the software development lifecycle.

### SIERRA COLLEGE | MATHEMATICS/PHYSICS TUTOR

March 2014 - May 2016 | Rocklin, CA

- Tutored students individually or in groups on a walk-in or appointment basis.
- Mathematics courses include Algebra, Statistics, Calculus, Linear Algebra, and Differential Equations.
- Physics courses include Mechanics, Electricity and Magnetism, and Heat, Waves and Modern Physics.

### WYZANT | GENERAL TUTOR

June 2016 - Present | Bay Area, CA

- Clients contact me based on their tutoring needs.
- Tutoring areas include Mathematics, Computer Science, Chemistry, SAT, ACT, and English.

### UNIVERSITY OF CALIFORNIA, BERKELEY | LAB ASSISTANT

Jan 2017 - May 2017 | Berkeley, CA

- Assisted introductory Computer Science students with lab assignments.
- Tasks also involved aiding students in setting up coding environments or installing necessary applications to complete current or other assignments.

## PROJECTS

### SECURE FILE STORAGE | PYTHON

- Designed and implemented a secure file storage system for remote file storage and sharing.
- Performs efficient updates and maintains confidentiality and integrity via encryption.

### CRYPTOCURRENCY PRICER & SENTIMENT ANALYZER | SWIFT

- iOS application that prices cryptocurrency according to the live asking price and Twitter sentiment of that cryptocurrency.
- Uses natural language processing to analyze Tweets mentioning the cryptocurrency in question.

### REVIEWS | PYTHON

- Simple web application that allows users to view aggregated movie reviews obtained via web crawler for their favorite films from various sources.