

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-singh](#)

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 •
Java • JavaScript • Node.js •
Python • React • SQL/NoSQL •
Swift

MATHEMATICS

Differential Calculus
Differential Equations
Discrete Mathematics
Statistics
Integral Calculus
Linear Algebra
Multivariate Calculus
Probability Theory

EXPERIENCE

ORCHESTRADE | SOFTWARE ENGINEER

Dec 2018 - Present | San Mateo, CA

- Implemented Alpha Omega FS as an Import/Export interface to handle the post-trade process and to prepare trades for settlement.
- Worked directly with clients to enhance the business logic of several components including the trade and transaction file layouts of Goldman Sachs, Morgan Stanley, HSBC, and Citi.

SIERRA COLLEGE | MATHEMATICS/PHYSICS TUTOR

March 2014 - May 2016 | Rocklin, CA

- 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

COLORS | REACT

- Built clone of Flat UI Colors and Material UI Colors.
- Users can select and copy directly from various palettes as well as create their own.

GOOGLE KEEP CLONE | NODE.JS

- Lightweight clone of Google Keep that tracks notes.
- Maintains state through MongoDB.

PACMAN AI | PYTHON

- Created bot that can play Pac-Man optimally based on different goals.
- Key implementations include state-space search algorithms, Minimax algorithm with alpha-beta pruning, Markov Decision Processes, Bayes' Nets, and Reinforcement Learning.