

Abhik Ahuja

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Links

github.com/origamiman72
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abhikahuja.com

Projects

Gitlet

- Version Control system similar to Git written in Java.
- Able to save and restore codebases
- Able to interact with remote repositories

AJA Messenger

- Messaging app with built in spam filtering
- Used Naive Bayes classifier to recognize and separate spam messages.
- Created during CalHacks 6.0
- Java - Android

Flappy Bird Clone

- Built as a demo to teach the principles of Java game development

Lines of Action

- Wrote game and GUI in Java.
- Created Alpha-Beta pruning and Monte Carlo Tree Search based AI's to study performance differences

Scheme Interpreter

- Wrote CLI interpreter for the Scheme programming language in Python.
- Implemented Tail call optimization and both lexical and dynamic scoping.

CEP Tower Stacker

- Tower Stacking game built for High School senior project.
- Java - Desktop and Android

SKILLS

Python	HTML	React.js
Java	CSS	Node.js
Linux	JS	Express
Scheme	jQuery	MongoDB
MySQL	Tensorflow	Bootstrap

EXPERIENCE

UC Berkeley EECS — CS70 Academic Intern

June 2020 - Present

Helps students increase their understanding of subject matter by

- Assisting during discussion sections
- Explaining problem solving concepts.
- Topics include mathematical proofs, cryptography, Markov chains, and probability.

Lodi Unified School District — High School AVID Tutor

January 2018 - May 2019

- Led a tutoring group of high school sophomores and juniors
- Tutored in academic questions from both high school and college level coursework
- Focused on Mathematics problems.

EDUCATION

University of California Berkeley, Berkeley — Double Major Computer Science and Mathematics

August 2019 - May 2023 (expected) - 3.94 GPA

- Structure and Interpretation of Computer Programs
- Designing Information Devices and Systems I
- Linux System Administration
- Data Structures
- Designing Information Devices and Systems II
- Discrete Mathematics and Probability Theory

San Joaquin Delta College, Stockton — 5 Associate Degrees

August 2015 - May 2019 (Dual Enrollment with High School)

- Mathematics
- Interdisciplinary Studies - Mathematics and Science

EXTRACURRICULAR ACTIVITIES

Open Computing Facility — Staff

August 2019 - Present

- Provides free computing resources to the Berkeley community
- OCF only uses and supports FOSS software.

Space Enterprise at Berkeley — Avionics Engineer

August 2019 - Present

- Worked on avionics systems for SEB rockets
- Developed telemetry communication systems between rocket and ground station
- Contributed to systems that monitored and aggregated data from sensors on rockets.