

# Ethan Ikegami

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, BERKELEY

Berkeley, CA

*Bachelor of Arts in Computer Science and Data Science*

May 2024

**Relevant Coursework:** Structure and Interpretation of Computer Programs, Data Structures and Algorithms, Economic Models, Principles and Techniques of Data Science, Discrete Math and Probability Theory, Circuits and Linear Algebra

## SKILLS

**Languages/Libraries:** Python, Java, SQL, HTML, CSS, JavaScript, RegEx, NumPy, Pandas, Scikit-learn, NLP, Tensorflow, APIs, ReactJS, Scheme, Matplotlib, Seaborn, JSX

**Software:** Git, Salesforce, Figma, Illustrator, Photoshop, Heroku, Excel, Firebase

## EXPERIENCE

### DAILY CALIFORNIAN

*Frontend Engineer Intern*

Aug 2021 – Present

- Port the current Daily Cal website, a site with more than a million monthly visitors, from Wordpress to React using GatsbyJS
- Query posts, pages, and other data from Wordpress's REST API using GraphQL during the build time of the new site

### COREVEST FINANCE

*Data Science Intern*

Jun 2021 – Aug 2021

- Built a profile of CoreVest primary contact clients using collected data to help identify future prospects and generate leads
- Converted inaccessible data in thousands of scanned PDFs into usable information with custom Python scripts, RegEx, and OCR
- Cleaned, formatted, and analyzed data using Pandas, NumPy, Excel, and other data science software and libraries
- Developed a Random Forest Classifier to predict whether a loan will be closed, withdrawn, or rejected with 97.82% accuracy

### SPORTS QUIZ ([Website](#))

*Business Manager & Owner*

May 2020 – Present

- Started an interactive sports website that was built from scratch using WordPress, HTML, CSS, JavaScript, and PHP
- Reached over 315K user sessions, 5MM pageviews, and served more than 16.5MM ad impressions during the site's lifetime
- Negotiated and built a network of over 100 affiliates - has a combined following on social media of around 4MM followers

## PROJECTS

### FireWatch Chatbot ([GitHub](#))

- Developed a chatbot that provides the public information about fire preparedness, ecology, recovery, and emergency protocols
- Collected 500+ datapoints and implemented algorithms utilizing Spacy, PCA, NLTK, and logistic regression
- Created a pipeline to streamline collected data and a real time machine learning model for intent classification with Scikit-Learn

### Gitlet

- Coded own version-control system that mimics features of Git: add, commit, rm, log, find, status, branch, merge, checkout

### Uber Traffic Movement ([Report](#))

- Clustered data spatially using Google Plus Codes vs census tract geojson and analyzed COVID lockdown impact on traffic
- Rebuilt Uber's time series model forecast to account for COVID achieving a 99.13%  $R^2$  score and RMSE of 2.11 seconds

### Jumping Cube

- Built from scratch a two-person, pure strategy, game that includes an AI that uses the minimax algorithm and alpha-beta pruning

### Instagram: HoopOriginal ([Account](#)) & DunkVintage ([Account](#))

- Developed an automated content curation process to grow basketball Instagram accounts to over 110k+ and 35k+ followers
- Using Quadratic Discriminant Analysis, built a model that predicts how well a post will perform with 70.59% precision
- Explored, analyzed, and optimized accounts posting schedule and post type yielding a 56.63% increase in engagement

### The Enigma

- Engineered a progressive substitution cipher in Java that encodes/decodes messages given initial permutation configurations

### NBA Hall of Fame Predictions ([GitHub](#))

- Predicted NBA Hall of Fame status using data scraped from multiple different online sources with 95.8% accuracy
- Feature engineered the dataset and used PCA for dimensionality reduction and searching for patterns in high-dimensional data

### Scheme Interpreter

- Built an abstracted Python interpreter for the Scheme language using Read-Eval-Print method that detects keywords and symbols

## LEADERSHIP & SERVICE

### BOY SCOUTS OF AMERICA

*Eagle Scout*

Torrance, CA

Apr 2013 – Dec 2019