

## Dorian Chan

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### Education

#### University of California, Berkeley

Electrical Engineering and Computer Science (Fall 2015-Fall 2018)

- CS188 - Artificial Intelligence
- CS184 - Computer Graphics
- CS70 (Discrete Math and Probability), CS61C (Computer Architecture), CS61B (Data Structures and Algorithms), CS61A (Intro), EE16A/EE16B (Circuits, Signals, Controls)
- GPA: **3.8**

### Skills and Projects

#### Research Project (Fall 2015 – Spring 2016)

- Dealt with upgrading modern web security and privacy on both the browser and the server.
- Node.js, Coffeescript, Javascript, HTML, Meteor

#### Research and Development Intern at W2BI (Summer 2016)

- Worked on image and audio processing.
- Python, C#, C++, OpenCV

#### Artificial Intelligence

- Implemented **LSTM neural network** from scratch, consequently used with word2vec and other **Natural Language Processing** strategies to build a trivia bot. (Javascript, Java)
- Using **concurrent neural networks** and **support vector machines**, created a bot that could gauge image quality. (Python)
- Created a Shazam-like app utilizing various **audio-processing** techniques for identifying sound snippets. (Python, MongoDB)
- Currently taking CS188

#### Data Structures and Algorithms

- Built a **ray tracer** using BSP trees and other optimizations. (C++)
- **Procedurally generated terrain** in Unity to create realistic landscapes for an exploration game. (C#)
- Created a **collaborative text editor** and created an operational transform algorithm to enable real time editing. (Java)
- Built a web app that allowed multiple users to **share and watch Youtube videos at the same time**. Part of a collaborative workspace project, currently in progress. (Node.js, web sockets, Express, MongoDB)

#### Web Projects

- Created templating engine using Javascript logic for dynamic web pages. (Node.js)
- Built a virtual sign-up sheet webapp to simulate the experience of paper. (PHP, SQL)

#### Future/In Progress

- JNB – a more educational IPython-style tool, emphasizing step-by-step learning and teacher customizability across multiple languages. (Java)
- Integrid – a UI experiment for more mobile friendly, intuitive websites and apps. (Node.js)
- Magic mirror – an Amazon Echo-like mirror. (Python, Node.js, Java)