

# Daniel Zeng

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## University of California, Berkeley

Computer Science, Bachelor's Degree

May 2021 (Expected)

GPA 3.94

### Relevant Courses

CS61C - Machine Structures, EE16B - Info/Systems,  
CS189 - Machine Learning, CS170 - Algorithms,  
CS188 - Artificial Intelligence, CS61B - Data  
Structures, CS70 - Discrete Math and Probability  
Theory, MATH54 - Linear Algebra

### Skills

**Languages:** Python, Java, C, C++, Javascript,  
Golang, Assembly (RISC-V)

**Platforms/Tools:** TensorFlow, NumPy,  
PyTorch, Matplotlib, Git, AWS, Bash, Pandas,  
HTML/CSS, Requests, Sockets, JUnit

### Experience

#### **Project Leader/Machine Learning Developer — Cal Launchpad, UC Berkeley** *Sept 2017 - Present*

- Project GrubGen (*Jan 2019 - Present*)
  - Leading team of 8 developers to implement GAN models for food image generation
- Project Facelift (*Jan 2018 - May 2018*)
  - Implemented convolutional neural networks to reconstruct 3D facial volume from 2D image
  - Used dlib to preprocess facial features and perform facial alignment
- Other projects: Project DeepBeat (*Sept 2017 - Dec 2017*), Ford Consulting (*Sept 2018 - Dec 2018*)

#### **Research Assistant — AutoLab, Berkeley AI Research Lab**

*Feb 2019 - Present*

- Working under postdoc Ajay Tanwani in Ken Goldberg's lab on machine learning research
- Implementing and researching techniques for domain adaptation using adversarial learning

#### **Vice President — Upsilon Pi Epsilon, Nu Chapter at Berkeley**

*Dec 2018 - Present*

- Lead professional development committee of 20+ people to improve recruiting skills
- Organized and held multiple workshops including resume, interviews, and negotiations

#### **Software Engineering/Research Intern — NASA (Ames Research Center)**

*June 2018 - Aug 2018*

- Developed an emulator for cyber security attacks on Air Traffic Management (ATM) system using existing ATM Testbed framework
- Built and tested functionality to generate and visualize a wide range of attack scenarios
- Implemented methods to model aircraft trajectory from specified origin to destination
- Created internal tool to configure Testbed framework components for interfacing with emulator

#### **Research Assistant — Dal Bó Lab, UC Berkeley**

*Sept 2017 - May 2018*

- Developed methods for natural language processing to extract text from archaeological journals

#### **Research Intern — Bhatia Lab, Boston University**

*July 2016 - Aug 2016*

### Projects

#### **Chess Game (github.com/daniel-zeng/ChessGame) (Python, tkinter)**

- Implemented minimax tree search with Alpha-Beta pruning, and position evaluation functions (piece square tables/piece values) to optimize the AI engine
- Playable through graphical user interface and command-line with algebraic notation

Also on Github: Markov models for text generation, Variational autoencoder for MNIST generation