Nate Young

Contact: Education:

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Electrical Eng. and Computer Science UC Berkeley: Current GPA 3.8 Graduation Expected May 2020

Java

Java

Java

Experience, hackathons, awards:

• CalHacks: Nov 2016

Created application to write LISP code with voice commands

• Teaching: 2012-2016

Taught elementary students basic computer science

• Zero Robotics Competition: Jan 2016

As part of high school team, progressed to finals; our code was run on the $\ensuremath{\mathsf{ISS}}$

May 2016

• USA Physics Olympiad:

Won title of "Bronze medalist" - national competition

Clubs:

• Launchpad:

Contributed to voice recognition & conversational AI system

• Hackers @ Berkeley:

Helped organize events, gave talk on how knowing computer science theory can help inform practical considerations

• Machine Learning @ Berkeley:

Worked on Investarget project: data science and machine learning for recommending startups to venture capital firm

Selected projects:

• Plane Cloud Renderer:

Designed novel techniques for computer graphics and implemented them in a raycasting rendering engine

Frederic:

Implemented an esoteric command system; uses operant conditioning to change its behavior.

STLFiles:

Designed and implemented code for creating 3d models of e.g. the Mandelbrot set and arbitrary heightmaps.

• NeuralNets:

Implemented simple backpropagation neural networks.

Can train XOR and MNIST.

UniversalSearch:
Python

Designed and implemented theoretical machine learning algorithm that searches the space of all inputs to a particular program for one that produces a given output, via tree search.

• Review: C++

Designed and implemented incomplete method for parsing user reviews and extracting "typical" phrases and reviews.

Programming languages: Python, Java including Android experience, JavaScript & HTML including some experience in libraries like AngularJS, some lower-level languages like C variants

Main interests in computer science: Machine learning, complexity theory, computability theory, information theory