

Vincent Lim

Santa Clara, CA | vincentklim@berkeley.edu | (408) 890-9493 | github.com/vincentklim

Education	University of California, Berkeley Bachelor of Arts, Computer Science Relevant coursework: <ul style="list-style-type: none">• CS 285: Deep Reinforcement Learning, Policy Gradients, Actor-Critic, DQN (self-study)• CS 61A: Python, Scheme, SQL, Data Abstraction, Functional Programming, OOP• EECS 16A: Linear Algebra, Circuits, Machine Learning• DATA 8: Intro to Data Science, Statistical Inference• STAT 33B: Advanced Programming in R Coursera: Deep Learning Specialization <ul style="list-style-type: none">• Feedforward Neural Networks, CNNs, RNNs, Optimizers, Regularization Monta Vista High School GPA: 4.0/4.0 Class of 2020 <ul style="list-style-type: none">• AP Computer Science A (5), AP Physics 1 (5), AP Chemistry (5), AP Physics C: Mechanics (5), AP Calculus BC (5)• SAT: 1560/1600 (99th percentile), SAT II: Math Level II: 800, Chemistry: 770 Concurrent Enrollment , Foothill College, De Anza College <ul style="list-style-type: none">• Advanced Java (A), Network Security (A), Object-Oriented Programming in Python (A)
Work Experience	Software Engineer Intern , Material in Motion, Atlanta, GA <i>July 2019 - August 2019</i> <ul style="list-style-type: none">• Developed a new backend API for an internal digital signage system in Python• Used the Flask web framework to communicate with several Raspberry Pis• Used the Requests package to scrape data from multiple internal sources
Skills & Interests	Languages: Java, Python, R, SQL, Scheme, L ^A T _E X Libraries: TensorFlow, PyTorch, Keras, Pandas, Matplotlib, Requests, Flask, BeautifulSoup4 Software: Linux, FreeNAS, Proxmox, Git, Solidworks, Cura, PrusaSlicer Interests: Classical Music, Bassoon, Cycling, Deep Learning, Reinforcement Learning, Web Scraping, Competitive Programming, 3D Printing, CAD
Leadership	President of Engineering , Valkyrie Robotics FRC #299 <i>April 2019 - April 2020</i> <ul style="list-style-type: none">• Led and coordinated the engineering department of a championship-attending robotics team• Headed the design of several major subassemblies of our robot in Solidworks• Led the team to its best placement ever and a playoff appearance at the Los Angeles North regional, a competition with many strong 'powerhouse' teams Secretary , Monta Vista Computer Science Club <i>May 2019 - May 2020</i> <ul style="list-style-type: none">• Organized and led regular club meetings that taught advanced computer science topics such as machine learning and cryptography.
Projects (on Github)	<ul style="list-style-type: none">• budgetkeras. A functional clone of the deep learning library Keras using the numpy library. Implemented Dense layers, non-linear activations, weight initialization techniques, and more.• Poker. A recreation of Texas Hold'em in Java. Built a GUI using the Java Swing toolkit and implemented multiplayer support using Sockets.• Ender i3 Pro. Designed upgrades to the Ender 3 Pro 3D printer in Solidworks, redesigned the x-axis carriage with support for direct drive, full metal hotend, and dual extruder gears.
Achievements and Awards	USA Computing Olympiad Platinum Division <ul style="list-style-type: none">• Top division of a series of nationwide algorithmic contests for high school students• Developed strong problem solving skills and a solid foundation in data structures and algorithms Harker Programming Invitational 2019 - 1st Place <hack> Cupertino 2019 - 1st Place National Merit Semifinalist MadTown Throwdown 2019 PG&E Excellence in Engineering Award