Vincent Lim

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Education

University of California, Berkeley
Bachelor of Arts, Computer Science GPA: 4.0/4.0 *Class of 2023*

Relevant coursework:

- CS 285 (Deep Reinforcement Learning, Policy Gradients, Actor-Critic, DQN)
- 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

- Feedforward Neural Networks, Convolutional Neural Networks, Recurrent Neural Networks, Optimizers, Regularization

Monta Vista High School GPA: 4.0/4.0 *Class of 2020*

- 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

- Advanced Java, Network Security, Object-Oriented Programming in Python

Work Experience

Software Engineer Intern, Material in Motion, Atlanta, GA *July 2019 - August 2019*

- 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, LaTeX
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 *April 2019 - April 2020*

- 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 *May 2019 - May 2020*

- Organized and led regular club meetings that taught advanced computer science topics such as machine learning and cryptography.

Projects (on Github)

- **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.

Achievements and Awards

USA Computing Olympiad Platinum Division

- 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