

# Vernon Luk

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## Education

- Jun 2021 **College of San Mateo** ..... San Mateo, CA  
(Expected) GPA: 4.0  
Computer and Information Science
- Jun 2020 **Carlmont High School** ..... Belmont, CA  
(Expected) GPA: 4.2; SAT: 1570; AIME: 9  
2019 Exceptional Performance in Mathematics winner (achieved the highest combined AIME and AMC scores)

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## Experience

- Jun – Aug 2019 **6crickets** ..... Redwood City, CA  
*Software Engineering Intern*
  - o Built a high-performance, multithreaded web crawler to gather market data and facilitate customer acquisition.
  - o Designed an asynchronous webpage classification algorithm that categorized frontend interfaces in realtime.
  - o Deployed the Python application to successfully discover over 15,000 potential clients in the education industry.
- 2015 – Present **Cubes in Space Club** ..... Redwood City, CA  
*Founder and President*
  - o Founded a student organization to develop and deploy science experiments in a NASA-sponsored program.
  - o Organized 3 teams of students over 4 years, launching 7 experiments to the stratosphere and 5 to outer space.
- Jun – Aug 2018 **Gigamind Explorer** ..... San Mateo, CA  
*Science Instructor*
  - o Designed and delivered a full-length physics, chemistry, and engineering curriculum for kids aged 5 to 14.
- 2015 – 2017 **Carlmont Technology Club** ..... Belmont, CA  
*Vice President*
  - o Supervised engineering operations of 30 students in 10 teams over 5 years, winning the top award in 2015.

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## Awards

- 2017 – 2019 **American Invitational Mathematics Examination (AIME)**
  - o Placed at the 85th percentile as one of 3,000 students invited to the leading high school mathematics competition.
- Jun 2019 **AP Scholar with Honors**
  - o AP Calculus BC, AP Chinese Language and Culture, AP Comparative Government and Politics, AP Computer Science, AP European History, AP Physics C: Mechanics, AP Statistics, and AP United States History.

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## Projects

- 2016 – 2019 **More ongoing projects at [github.com/vluk](https://github.com/vluk).**
- Baymax (Python)**, Intelligent realtime chatbot on Discord powered by recurrent neural networks trained on user interactions.
- Cutie (Python)**, Internet application that asynchronously retrieves online mathematics exercises formatted in LaTeX.

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## Skills

### Languages

- o Python
- o Java
- o JavaScript

### Data Analysis

- o Tensorflow/Keras
- o Pandas
- o Elastic Compute (EC2)

### Tools

- o UNIX
- o Git
- o SQL

Redwood City – California – United States

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