# Andrew H. Lu

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## Education

University of California, Santa Barbara
- Bachelor of Science in Electrical Engineering
- Cumulative GPA: 3.87
- Expected Date of Graduation: June 2021

## Skills

- JavaScript, Node.js, HTML, and CSS scripting
- Basic C++ programming
- Proficiency in Microsoft Office
- Experience with Autodesk Fusion 360

## Relevant Projects

*Learn more about these projects at andrewhlu.github.io*

- UCSB Dining - Cortana Skill that recommends a Dining Common based on food that you like.    *Apr 2018*
  - Created using Microsoft Bot Framework, Node.js, JavaScript, and Microsoft Azure Storage

- Tinder4Tutors - A variant of Tinder designed to facilitate the search for tutors.    *Feb 2018*
  - Created using Firebase (Realtime Database, Storage, Hosting), Node.js, JavaScript, and HTML frontend

- ScaVision Hunt - A real-time multiplayer scavenger hunt, in real life.    *Jan 2018*
  - Created using Google Cloud's Vision Machine Learning API, Firebase (Realtime Database, Cloud Functions, Storage, Hosting), Node.js, JavaScript, and HTML frontend

- Candy Bar Fundraiser POS - A modified POS to simplify candy checkout and inventory.    *Mar 2017*
  - Created using a custom Google Scripts backend. Revised in 2018 with an HTML frontend
  - First deployed for 2017 fundraiser - Sold 7,020 candy bars compared to 4,690 in previous year

- Blue Pearl Scanner - Mobile ticket scanning for shorter lines and efficient check-in.    *Jan 2017*
  - Created using a custom Google Scripts backend and app barcode scanner. Revised in 2018 to include QuaggaJS, a web-based barcode scanner

## Leadership Experience

President, Vice President, and Treasurer – DVHS Robotics, San Ramon, CA.    *Aug 2015 – Jun 2017*
- Hosted 11 tournaments in Northern California, including three by Google and two state championships
- Reduced student cost for our largest World Championships trip (serving 60 people) by $200 per person

Fundraising Committee Leader and Librarian - DVHS Band Council, San Ramon, CA.    *Sep 2014 – Jun 2017*
- Coordinated and executed the switch to a paperless ticket system for our annual fundraiser dance, Blue Pearl, by creating a mobile ticket scanner (see Projects above)
- Created point-of-sale for our annual candy bar fundraiser to simplify checkout, increasing profits by 150% compared to previous year (see Projects above)
- Cataloged, reorganized, and managed distribution of music in our music library

## Honors and Activities

- Honorable Mention Recipient at Microsoft Cortana Hackathon    *Apr 2018*
- Event Finalist and Honorable Mention Recipient from Firebase (Google), SB Hacks    *Jan 2018*
- Scholarship Recipient (Fundraiser POS, Scanner), Dougherty Valley HS Music Program    *May 2017*
- Two-time Competitor, VEX Robotics World Championships    *Apr 2015, Apr 2016*
- Tournament Champion, VEX Robotics California State Championships    *Feb 2016*
- Tournament Finalist, VEX Robotics California State Championships    *Feb 2015*