

# Aaron Alvarado Kristanto Julistiono

Cambridge, MA • [LinkedIn](#) • [Gmail](#) • [MIT e-mail](#) • [GitHub](#)

## Education

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**Massachusetts Institute of Technology (MIT)**, Cambridge, MA

**May 2025**

- Bachelor of Science in Computer Science and Engineering
- GPA: 5.0/5.0
- Current Courses: Machine Learning, Design and Analysis of Algorithms, Fourier Analysis, Intro to C and Assembly.
- Relevant Coursework: Fundamentals of Programming (Object Oriented), Intro to Algorithm, Algebra I and II (Abstract and Linear Algebra), Calculus I and II, Differential Equation, Mathematical Problem Solving (Putnam Seminar).

## Relevant Skills

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- **Computer Science:** Python, Object Oriented Programming, C++, C, Algorithms, Data Structure, MySQL, JavaScript, React.js, Basic Node.js and Express.js, MySQL, Haskell, R, Basic MongoDB, MERN Stack, Assembly.
- **Mathematics:** Linear Algebra, Basic Statistics and Probability, Problem Solving, Group Theory.
- **Others:** Leadership, Collaboration, and Communication.

## Projects

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### [Lie Wordle Personal Project](#)

Skills: React.js, MongoDB, JavaScript

- Recreated the popular WORDLE app, with a new mode where one letter clue is false or hidden.
- Used the React.js as the front-end, node.js and express.js as back-end for making API's, and MongoDB as the database that stores most, if not all, five-letter English words.

### **Physics I Final Project**

Skills: Leadership, Collaboration, Communication, Problem Solving

- Coordinated a team of three to conduct an experiment that aimed at modelling the motion of a mass on a spring.
- Created a report that consists of deriving the model and compiling and processing data.

## Experience

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**Harvard-MIT Division of Health Sciences and Technology**, Cambridge, MA

**Sep 2022 – Present**

Undergraduate Researcher – *Measuring Impact of Physician-Scientists on Innovation, Research, and Economy*

- Collect and merge data to quantify the role of physician-scientists and the impact of mentoring on physician-scientists
- Design tables using MySQL with primary and reference keys containing information on people, projects, publications, and organizations to analyze how projects evolve and what professional relation do two scientists have
- Present weekly updates and findings to research groups and supervisor for feedbacks

**Lecture Series Committee (LSC)**, Cambridge, MA

**Jan 2022 – Present**

[Webmaster](#)

- Edit and create SHTML files to modify and create LSC web schedule to inform students about future LSC events

**MIT Department of Mathematics**, Cambridge, MA

**Jun 2022 – Sep 2022**

Undergraduate Researcher – *Formal dimension of a p-adic group representation as a p-adic limit*

- Helped define a new formal dimension of the group representation of the p-adic number. Result can be seen [here](#)
- Reviewed and quickly learned from books and lecture notes about complex topics such as p-adic numbers, representation theory, et al., to identify relevant ideas and concepts to approach the problem of limit convergence
- Presented research findings during meetings with supervisor

**New Vassar Dormitory in MIT**, Cambridge, MA

**Oct 2021 – Sep 2022**

Webmaster

- Created website using React.js templates for the New Vassar dorm in MIT to promote dorm for prospective residents
- Integrated online feedback forms, et al., into the website for student residents to ensure accessibility

**MIT Media Lab**, Cambridge, MA

**Jan 2022 – May 2022**

Undergraduate Researcher – Graph Neural Network

- Surveyed and summarized over 20 research papers on improving the graph neural network framework to reduce the effects of the long-range dependency problem, such as over-squashing and vanishing gradients
- Collaborated with another undergraduate researcher to present findings and recommendations to supervisor