

# Eric Nguyen

Boston, Massachusetts / London, United Kingdom / Salt Lake City, Utah | [eric.nguyen.kt424@gmail.com](mailto:eric.nguyen.kt424@gmail.com) | 801-800-3047 | [ericnguyenkt.com](#)

## Summary

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A very curious, open-minded, and self-taught programmer with good experience in Java. Foraged great collaboration and social skills through work and school. Personal projects such as Wordle Clone or Pneumonic Detector showcase independence and willingness to learn. Not afraid to fail and learn from mistakes.

## Education

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### Academy of Math Engineering and Science

High School Diploma

**GPA:** 3.99

**Graduation date:** June 2023

### University of Utah

Computer & Data Science

**GPA:** 3.98

**Graduation date:** 2027

### Boston University

Computer Science

**GPA:** N/A

**Graduation date:** 2023-2024

## Work Experience

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### University of Utah: Arch Lab

City, State

#### Student Intern

June 2022 - July 2022

- Completed a rigorous 6-week, 10-hour-per-week student-led internship in Machine learning, collaborating with Professor Rajeev Balasubramonian and peers at the University of Utah Arch Lab.
- Led independent research on diverse Machine Learning Topics including applications, types of problems, neural networks, etc.  
Learned great problem-solving skills from Kaggle Datasets.  
Employed a convolutional neural network, cross-entropy loss, and stochastic gradient descent to help build a Pneumonia Detector from Kaggle.
- Gave presentation on project, acquired proficiency in public speaking and demonstrated adept independent management of complex subjects

### Pho Saigon & 7Buddha (Cojunct Companies)

Murray, Utah

#### Waiter, Barista, and Manager

March 2020 - October 2023

- Customer Service & Drink Handling, worked with colleagues to optimize workflow during chaotic rush hours.
- Waiter, Cashier, and Busser. Managed and led shifts, trained new employees, ensured high levels of customer satisfaction, and oversaw certain day-to-day operations.
- Provided excellent customer service and addressed customer needs. This translates to understanding user requirements and meeting expectations.
- Overcame rush hour stressors, coworker tensions, and customer issues while juggling multiple tasks and managing tables.
- Proven problem-solving capabilities, honed in resolving customer complaints as a waiter, now applied to tackle complex issues in computer science.

## Projects

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### Developed a Personal Website

<http://www.ericnguyenkt.com/>

- Facing a setback, my previous site is gone after GoDaddy deleted my data. I'm rebuilding with improved hosting, increased user functionality, and more aesthetic GUI, showcasing my ability to handle challenges and adapt to unexpected hurdles
- Intensively studied front-end development during COVID-19 online school year, acquired proficiency in JavaScript, HTML, CSS, & related languages.
- Developed this website as a test of the practical application of my gained skills. The website serves as a portfolio showcasing diverse projects I've undertaken.

### Mental Health Website

- Awarded scholarship from Academy of Math Engineering and Science for this website
- Promoted Mental Health and Suicide awareness by listing ways to understand the condition as a victim and as a friend
- Gained valuable experience in project management, debugging, time management, and working with interactive elements such as sliders.

### Tower Defense Game

- Tower Defense Game developed in Senior Year of High-School. Used Software Development techniques learned in CS1420 at the University of Utah to develop.
- Learned about the roles of abstraction and problem-solving in designing a larger software project, algorithms, and complexity analysis.
- Attained proficiency in programming paradigms and concepts such as GUI Programming, Linked data structures, polymorphism, reference, and casting.
- Acquired other skills, such as working with sets and maps, simulation and game design, and state machines.

### Pneumonia Detector using Machine Learning

- Developed in conjunction with peer Sang Hyun Chun at the University of Utah: Arch Lab during 6-week, 10-hour-per-week internship.
- Used Kaggle-dataset to train an AI model to detect Pneumonia in lungs given data, trained and improved model from a 25% accuracy to a 77% accuracy.
- Created a document with highly informative resources to learn Machine Learning and AI.

### Wordle Clone

- More comfortable with Java and Product Development
- Gained proficiency with algorithms, data management, user input, GUI interface, and problem solving
- Gained a new understanding of handling user interface and debugging code.

## Skills

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**Skills:** Results-driven professional with strong communication and organizational skills, excelling in high-pressure environments. Customer-focused and collaborative team player with a proven work ethic. Proficient in Java, JavaScript (JS), HTML, CSS, and Python, with the ability to learn independently and contribute actively to tasks.