

Kevin Shao

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EDUCATION

Massachusetts Institute of Technology , Cambridge, MA	Expected Graduation: June 2023
<ul style="list-style-type: none">Major: Candidate for Bachelor of Science in Computer ScienceRelevant Coursework: Fundamentals of Programming, Analysis of Algorithms, Machine Learning, Linear Optimization, Autonomous Racecar Robotics	GPA: 5.0/5.0
Lawrenceville School , Lawrenceville, NJ	<i>Fall 2015 – Spring 2019</i>
<ul style="list-style-type: none">Honors: High Honors, AP Scholar with Honors, Hutchins Scholar	
Princeton University , Princeton, NJ	<i>Fall 2017 – Spring 2019</i>
<ul style="list-style-type: none">Courses: Honors Analysis, Honors Linear Algebra, Combinatorics	

RELEVANT EXPERIENCE

Google – STEP Intern (Virtual)	<i>June – September 2020</i>
<ul style="list-style-type: none">Designed and implemented a web application to facilitate communication on college campuses using HTML, CSS, JavaScript, and JavaIntegrated with 5 Google API's, including Calendar and GmailExecuted full project lifecycle, including design review, UX review, and user feedback	
MIT Geometric Data Processing Group – Undergraduate Researcher	<i>May 2020 – Present</i>
<ul style="list-style-type: none">Researching and proposing algorithms for 3D multiview point cloud registrationIntegrating with pipeline to reconstruct 3D models from partial LIDAR scansUsing PyTorch, Open3D, and Minkowski Engine to implement machine learning models for registration	
Daiwa Steel Tube Industries – Extern	<i>January 2020</i>
<ul style="list-style-type: none">Developed software in Java to automatically generate reports from speech dataCurated voice data to improve voice recognition model, accounting for Japanese factory jargonAchieved ~90% accuracy on prototype model	<i>Tochigi, Japan</i>
Phylogeny Tool – Personal Project (Ongoing)	<i>June 2019 - Present</i>
<ul style="list-style-type: none">Developing software with Java to streamline and aid the phylogenetic process from the Hutchins Scholars programEmploying graph theory to combine reads generated from PCR	
Handwriting Recognition Neural Network – Personal Project	<i>June – August 2018</i>
<ul style="list-style-type: none">Implemented artificial neural network from scratch in JavaAchieved 94% success rate in classifying handwritten digits from MNIST dataset	

EXTRACURRICULAR ACTIVITIES

MIT Varsity Lightweight Crew		<i>Fall 2019 – Present</i>
<ul style="list-style-type: none">• Member of MIT’s Varsity Lightweight Crew Team• Practice and compete for 15+ hours per week		
Hutchins Scholars	<i>Royal Botanical Garden Edinburgh</i>	<i>June 2018 – August 2018</i>
<ul style="list-style-type: none">• Created evolutionary trees for 107 species of Carribean Gesneriaceae• Sequenced and analyzed DNA data through Polymerase Chain Reaction (PCR) techniques, as well as parsimony analysis		
The Lawrence – Web Editor	<i>Lawrenceville School</i>	<i>April 2017 – March 2019</i>
<ul style="list-style-type: none">• Managed, updated, and expanded the website for <i>The Lawrence</i>, the school paper.• Used PHP, MySQL, JavaScript HTML, and CSS to add features to the website and streamline the weekly upload process• Implemented features such as online polling, an admin interface, and a tool for faculty approval		

SKILLS AND INTERESTS

Skills: Java, Python, PyTorch, NumPy, PHP, JavaScript, MySQL, Git

Interests: Poker, Chess, Music Composition, Swimming, Cycling