

Michael Li

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Education

2019–2023 **Brown University**, *Sc.B, Computer Science and Music*, Providence, RI, *ongoing*.
GPA: 3.90

Fall 2022	CS1570 Design and Analysis of Algorithms	Spring 2021	CS0320 Intro. Software Engineering
Fall 2022	CS1300 User Interfaces and User Experience	Spring 2021	MATH0520 Linear Algebra
Spring 2022	CS1420 Machine Learning	Spring 2021	APMA1650 Statistical Inference I
Spring 2022	CS1470 Deep Learning	Fall 2020	CS0330 Intro. Computer Systems
Fall 2021	CS1650 Software Security and Exploitation	Spring 2020	CS0160 Intro. Algorithms and Data Structures
Fall 2021	CS1730 Design and Implementation of Programming Languages	Spring 2020	CS0220 Intro. Discrete Structures and Probability
		Fall 2019	CS0150 Intro. Object-Oriented Programming

2015–2019 **High Technology High School**, Lincroft, NJ.

Work Experience

- Jun–Aug 2022 **TIP Software Engineering Intern**, *Capital One*.
Led a full-stack intern project to develop an internal tool to assist in generating configuration files/pre-set file structures and reading and writing from databases. Used React and Flask with Python to develop the application, which uses questionnaires to programmatically generate/use configuration data.
- Jun–Aug 2021 **Machine Learning Intern**, *Merck*.
Used Camelot library to write a Python OCR script that parses data from English and Chinese PDFs into organized Excel spreadsheets. Researched and tested various PDF table extraction tools (Camelot, pdfplumber, Azure Form Recognizer) in virtual Python environment.
- Feb 2021 **Student Manager**, *Brown University IT Service Center*.
–present Answers IT help tickets and chats as a member of the ITSC at Brown University. Troubleshoots technology used around campus and provides technical support to both staff and students. Manages shifts and logistics for other technical assistants.
- Aug 2020 **Website Designer**, *abacus counselling*.
As sole web developer, used HTML, CSS, and JS to design and launch a website for abacus counselling, a startup that provides college advising for students in Sri Lanka.
- Jul 2020 **Website Designer**, *re:Bloom*.
Used React to help design the website for re:Bloom, a non-profit that creates websites for small businesses during the COVID pandemic.
- May–Aug 2018 **Computer Networking Intern**, *Quanthouse*, Secaucus, NJ.
Worked on inventorying and migrating over one hundred server machines between server cages at a data center. Documented the IP address of each machine, as well as the various MAC addresses and other IPs it was connected to, creating a spreadsheet diagramming the network of servers. Helped configure the machines once moved.

Projects

- Apr 2021 **Spothouse**, *CS0320 Intro. Software Engineering*, <https://spothouse-app.herokuapp.com/>.
My term project for CS0320. Used ReactJS and Spark Java to create a webapp that allows a group of people to share a Spotify queue. Users can search for songs and request to add them, as well as upvote/downvote songs to modify the queue order. When a song gets upvoted, the user who requested it gains voting power, and vice-versa.
- Nov 2019 **ChordConstructor**, *CS0150 Intro. Object-Oriented Programming*.
My term project for CS0150. Used JavaFX to create a program that, given a key and roman numeral selected by the user, displays the appropriate chord on a treble clef staff and plays the chord out loud.

Skills

- Programming Java, Python, C, Racket, Jenkins, Docker, Flask, AWS, Machine Learning, Deep Learning, x86-64 Assembly, React, HTML, JavaScript, CSS, SQL, \LaTeX , LilyPond
- Mathematics multivariable calculus, discrete mathematics, probability, statistics, linear algebra