

EDUCATION

Sept 2022 - Dec 2023	New York University, New York, USA; M.S. Computer Science (3.72) New York University, Bachelor of Science, Computer Science; Business minor (2017-2021) Relevant Coursework: Algorithms, Big Data, Offensive Security, Software Engineering, Artificial Intelligence
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EXPERIENCE

Sep 2023- July 2024	Boston Metropolitan Area Planning Council Full-Stack Software Developer, Independent Contractor <ul style="list-style-type: none"> Leading initiative for improving devops and developer processes, building common TypeScript React component libraries and generators with Storybook for library and view development. Increased new project development by 200% Led development of React, Leaflet, Esri interactive regional planning maps serving live data from a Content Management System that I helped develop and standardize use of at MAPC. Coordinated testing and review with product experts. Improved interactive functionality of data visualizations, and content accessibility for Perfect Fit Parking ruby on rails webapp
Jun 2023- Aug 2023	Coding it Forward Summer Fellowship Full-Stack Software Fellow at Boston MAPC <ul style="list-style-type: none"> Selected from an applicant pool of 2,500 students with an acceptance rate of 5% as part of the Coding it Forward Summer Fellowship, a program that empowers early-career technologists to do public service in government Led software architecture design for a React, Next.js, PostgreSQL, webapp serving rental listing data to municipal planners throughout the Greater Boston area. Ran user interviews and created UI/UX Figma flows to best meet user needs. Improved interactive functionality and designed a secure flow of user contribution data to Trailmaps webapp using with Mapbox and Airtable tools. Refactored website to increase responsive and accessible design. Developed Muni Emoji, a community engagement and creative coding project reaching internal MAPC staff, general public, and legislators using TypeScript, React, D3, with an Airtable backend.
Jun 2021- Feb 2023	Hall Pass Studios at NYU Software Engineer / Art Director <ul style="list-style-type: none"> Designed and built two full-stack React webapps serving web optimized, educational serious game to thousands of users. Used Firebase for user analytics, tracking user progress and engagement drawing educational progress based on analytics Organized and managed workflow of a team of five artists, and oversaw quality and visual direction Pitched executive NYU stakeholders to secure expert advisor support and funding
May 2019- Aug 2019	R/GA Software Engineer / User Experience Design Intern <ul style="list-style-type: none"> Developed a hybrid web app prototype using JavaScript and Cordova PhoneGap for ordering food in person via QR code Designed user experience flows, conducted market research, and composed pitch decks for to share with advertising clients

PROJECTS

February 2023- Present	Color Me Silly <ul style="list-style-type: none"> Designed and developed a multi-heuristic brain teaser game for web and mobile with evolving mechanics and procedural puzzle generation that develop player mastery. Core built in Godot / GDScript with GLSL 3 shaders and original art assets via Aseprite. Currently developing database and server backend for leaderboards and player analytics.
May 2021	Interactive Visualization of Schwarz-Christoffel Mapping <ul style="list-style-type: none"> Developed a Django webapp serving a React static page calculating SC conformal Mapping on a polygonal domain, providing the first web resource for liquid physics simulations; hosted on Heroku

TECHNICAL

Stack:	React.js, JavaScript, Typescript, Python, SQL, Ruby, MongoDB, C, C++, Django, HTML, CSS, PostgreSQL, Hadoop		
Other:	NextJS, ExpressJS, Godot, Photoshop, Figma, GitHub, AWS, OpenGL, CircleCI, Ninja, Burpsuite, D3.js, Storybook, Esri		
2023	Ken Perlin's Future Reality Lab, NYU	2018-2024	6-Year Participant, Global Game Jam
2023	Teaching Assistant, NYU	2019-2020	Marketing Committee, Asian Heritage Month
2023	Participant, UCLA's LACTF	2018-2019	Co-Founder and Secretary, SPLICE
2021	Dean's List, NYU Shanghai	2018-2019	President, NYU Shanghai Volleyball Club

LEADERSHIP AND RECOGNITION

Sept 2018- May 2019	HACK THE PEARL 2019 (HSBC Data Modeling Competition) Co-Founder / Director of Events & Coordinator <ul style="list-style-type: none"> Managed sponsorships, designed promotional materials, coordinated logistics for China's first-ever joint data modeling hackathon Successfully raised over 80,000 RMB from sponsors such as Intel and Ruffood with HSBC as our title sponsor, for 60 participants
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