

**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

**EXPERIENCE**

Sep 2023 - July 2024 **Boston Metropolitan Area Planning Council**  
 Full-Stack Software Developer, Independent Contractor

- 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

- 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

- 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

- 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**

- 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**

- 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, Binja, Burpsuite, D3.js, Storybook, Esri

2023	Ken Perlin's Future Reality Lab, NYU	2018-2024	6-Year Participant, <b>Global Game Jam</b>
2023	Teaching Assistant, NYU	2019-2020	Marketing Committee, <b>Asian Heritage Month</b>
2023	Participant, UCLA's LACTF	2018-2019	Co-Founder and Secretary, <b>SPLICE</b>
2021	Dean's List, NYU Shanghai	2018-2019	President, <b>NYU Shanghai Volleyball Club</b>

**LEADERSHIP AND RECOGNITION**

Sept 2018 - May 2019 **HACK THE PEARL 2019 (HSBC Data Modeling Competition)**  
 Co-Founder / Director of Events & Coordinator

- 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