Rachel Park

rpark02@mit.edu | rachel.jupark@gmail.com
LinkedIn | 213-841-3396

Education

Massachusetts Institute of Technology
Masters of Engineering in Computation and Cognition | Class of 2025-26

Massachusetts Institute of Technology
Bachelor of Science in Computation and Cognition | 4.9 GPA | Class of 2024
Minor in Business Management

Skills

- **Programming Languages:** Python, TypeScript, HTML, CSS, JavaScript, Swift, SQL
- **Tools and Frameworks:** React Native, Angular TypeScript, Tailwind CSS, Bootstrap, Node.js, Pandas, PuLP, GLPK, Amazon RDS, MySQL, GitHub/GitLab, Figma, Canva, Adobe Photoshop, Microsoft Office, G Suite, Cloud Firestore, Qualtrics, Visual Studio Code, Xcode

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Relevant Experience

Project Co-Lead | Present
MIT CSAIL
- Co-leading research to apply large language models (LLMs) for detecting financial fraud
- Conducting literature review and identifying relevant datasets to define a focused research question

App Developer (Undergraduate Researcher) | 2024
MIT Media Lab | MemPal
- Lead frontend app developer for the MemPal application
- Created designs in Figma and implement them using React Native, JavaScript, HTML/CSS, and Expo Go
- Established a connection between the frontend and database

Full Stack Developer | 2023
Publicis Sapient
- Implemented a fully functioning website that hosts optimization models for the oil and gas industry
- Created various website pages using Angular Typescript, HTML, CSS
- Developed two linear programming models on the backend using Python, Pandas, PuLP, GLPK
- Built a database using MySQL to host outputs from the optimization models and connected it to Amazon RDS
- Worked closely on UI/UX with Project Managers and collaborated on Figma

Full Stack Developer (Undergraduate Researcher) | 2023
MIT Early Childhood Cognition Lab
- Provided assistance for a study focused on better understanding the effects of social discussion on learning
- Created a chat app using Javascript, HTML, and Tailwind CSS to be used in the pilot study
- Embedded the chat app in the study using jsPsych
- Established a database using SQL to store and analyze participant data

Data Analyst | 2024
Silver Lining Mentoring
- Collected data on organizations across the U.S. that support youth in foster care using Microsoft Excel and Google Sheets
- Analyzed data using Python, Pandas, Microsoft Excel, and Google Sheets to understand foster care statistics for U.S. states
- Created data visualizations using Python, Pandas, Microsoft Excel, and Google Sheets

Lead Website Designer | 2023
MissionSAFE
- Built a new website for MissionSAFE using Squarespace
- Created a color palette and font theme that better represented MissionSAFE's goals and brand
- Designed the website to be more accessible to the target demographic of MissionSAFE

App Developer | 2022
Aavia
- Developed an interactive community poll, health log toggles, detail pages for users to log health information using Xcode, SwiftUI, Cloud Firestore, and GitHub
- Collaborated with App Development team to debug and conduct code reviews
- Provided feedback on UI elements, user engagement, and strategies to reach a larger user base
- Assisted with copywriting targeted towards younger populations