

RACHEL OMBOK

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EDUCATION

New York University, Tandon School of Engineering, Brooklyn, NY May 2022

Bachelor of Science, Computer Science, Minor in Game Engineering

- Honors: Recipient of Nick Russo Award for Outstanding General Engineering Design
- Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Discrete Mathematics, Data Analysis

SKILLS

Technical: Python, C++, Web Applications (HTML, CSS), C#

Software: AutoDesk Fusion 360, Unity, Microsoft Office, G Suite

EXPERIENCE

Research Intern, NYU Game Innovation Lab, Brooklyn, NY Feb 2020 – Present

- Create general intelligence for The Sims 4 using a quality diversity evolutionary algorithm
- Code C++ program that tests how in-game objects affect a sims' mood and environment
- Analyze and interpret experiment results alongside graduate students and postdocs
- Attend lab group meetings and organize notes & data within a thesis paper

PROJECTS

HandyMap, (Java & Python) Sep 2019

- Coded backend of an Android application that identifies wheelchair accessible entrances on the MIT & Boston University campuses
- Programmed in-app scenes in Java that iterated through latitude & longitude coordinates, and mapped them using the Google API in Android Studio
- Winner of Best Assistive Tech Project & placed in Top 10 against 200+ teams at HackMIT 2019

Don't Let the Bed Bugs Bite, (C#) Aug 2017

- 2D platformer game made in Unity Engine, which implemented 2D physics
- All game sprites and assets self-created in Adobe Photoshop

LEADERSHIP ACTIVITIES

President, NYU Girls Who Code College Loop Oct 2019 – Present

- Founder and organizer of bimonthly meetings for the Girls Who Code (GWC) College Loop Club at New York University
- Recruit members, plan meetings, manage logistics, and serve as the point of contact with GWC
- Manage monthly challenges that hone computer science skills, and provide professional development opportunities with industry professionals and GWC corporate partners

Communications Chair, NYU National Society of Black Engineers May 2019 – Present

- Promote the club by taking photos at chapter events and manage all social media pages
- Create graphic designs and promotional posters for events
- Manage chapter's communication channels including the website and email