

# SWAPNIL KHA

New York, NY • [914-319-9493](tel:914-319-9493) • [sk7012@nyu.edu](mailto:sk7012@nyu.edu) • [linkedin.com/in/swapnilkha](https://www.linkedin.com/in/swapnilkha) • [github.com/swapnilkha](https://github.com/swapnilkha) • [swapnilkha.github.io](https://swapnilkha.github.io)

## EDUCATION

### New York University

B.S in Computer Science from Tandon School of Engineering

Activities: Machine Learning Club (Event Coordinator), Class Activities Board (Member)

Brooklyn, NY

May 2021

## SKILLS

**Languages:** Proficient: Python, Java, C++, Intermediate: JavaScript, HTML, CSS, Swift

**Databases:** MySQL, MongoDB | **Tools & Frameworks:** Node.js, Gatsby.js, Xcode | **Additional:** Git, Linux, Agile

## WORK EXPERIENCE

### Whatsbusy

Full Stack Engineer Intern

Houston, TX

Jun. 2020-

### Sirvisetti Systems

Software Engineer Intern

Princeton, NJ

Jun. 2019-Aug. 2019

- Developed an automated email-dispatching app in Groovy which emails clients at a user-provided date using the SMTP protocol
- Designed and implemented a MySQL database which connects to the app and generates the body of the email
- Built a Gatsby.js app which connects to Strapi Content Manager and allows a user to view and edit customer info.
- Created and tested a custom API which interacts with Strapi to add, delete and modify customer data

Software Engineer Intern

Jun. 2018-Aug 2018

- Designed and built an automated assistant adapter using Google Actions and IBM's Node-Red IDE
- Created a response system using Node-Red flows in which a sales rep. requests Google Assistant for his monthly commission info.
- Using JavaScript, programmed flow input and outputs which accurately calculate sales commissions
- Coded an EDI parser which converts sales rep info. to JSON format and sends it to the adapter to calculate sales commissions

### Gopeer

Computer Science & Math Tutor

May 2019-

- Tutoring students in Java, Python, Geometry, Algebra 2, and SAT/ACT prep

## PERSONAL PROJECTS

### Smyle (Node.js/MongoDB): HackNYU Team Project

Mar. 2020

- Built Smyle, an e-commerce website which helps people choose sustainable clothing options over fast fashion
- Aimed to **reduce carbon footprints by 3.2 kg. and save 10,000 liters of water** for every clothing bundle purchased
- Processed payments using Stripe, styled the front-end using BootstrapCSS; stored clothing bundles using MongoDB

### Finstagram (MySQL/Python/Flask)

Nov. 2019-Dec. 2019

- Developed an app where a user can post pictures, add friends to groups and search a photo by a tag or username
- Planned out and designed a MySQL database which stores user info and developed 10 custom test cases

### Personal Website (HTML/Jekyll/Liquid)

Jul. 2019-Aug. 2019

- Built a website using BootstrapCSS to showcase my background, programming skills and hobbies
- Coded an email form using PHP and included HTML links to social media and GitHub

### Car vs Rideshare Comparison Calculator (C#/.NET)

Jun. 2019-Jul. 2019

- Calculates the cost-efficiency of owning a car vs. commuting via rideshare
- Utilized user-defined variables such as miles traveled per year, MPG, and annual insurance cost
- Achieved **O(n) runtime and 90% accuracy** in determining difference in costs

### Tic-Tac-Toe (Swift)

Jun. 2018 - Jul. 2018

- Built Tic-Tac-Toe using Xcode and implemented a 3x3 board so two users can play
- Designed a layout to make the game suitable for all ages, and optimized it to be compatible with the iPhoneX

### To-Do List (Swift)

Jun. 2018 - Jul. 2018

- Designed a to-do list app where a user can order reminders by priority, delete them, and mark them as complete