

# SWAPNIL KHA

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## EDUCATION

### New York University Tandon School of Engineering, Brooklyn, NY

May 2021

Bachelor of Science in Computer Science, Minor in Business Studies from NYU Stern School of Business

Relevant Courses: Data Structures and Algorithms, Object-Oriented Programming, Computer Architecture, Design and Analysis of Algorithms, Operating Systems, Databases, Computer Networking, Artificial Intelligence, Software Engineering

## SKILLS

**LANGUAGES:** Python, Java, Groovy, C++, C, Swift, C#/.NET, HTML, JavaScript, CSS, Assembly (x86)

**DATABASES:** MySQL, NoSQL, MongoDB

**TOOLS/Frameworks:** GatsbyJS, Grails, Xcode, Node-RED, Strapi, Node.js

**ADDITIONAL:** Git, Linux, Agile

## EXPERIENCE

### Sirvisetti Systems

**Software Engineer Intern** · Princeton, NJ

June 2019 - August 2019

- Implemented an automated email-dispatching application using GatsbyJS and Groovy which emails clients at a user-provided date
- Integrated a MySQL database and Strapi Content Manager which generated the body of the email

**Software Engineer Intern** · Princeton, NJ

June 2018 - August 2018

- Designed and built an automated assistant adapter using Google Actions and IBM's Node-Red development environment
- Created a response system using Node-Red flows in which a sales rep. requests Google Assistant for his monthly commission info.
- Programmed an EDI parser which takes an EDI string containing sales rep info as input and converts it to JSON, which the adapter uses to calculate sales commissions

### Gopeer

**Computer Science/Math Tutor**

March 2019 - Present

- Tutoring middle and high schoolers in Java, Python, Geometry, Algebra 2, and SAT/ACT prep

## PERSONAL PROJECTS

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

March 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 sustainable outfit bundle purchased
- Programmed payment processing using Stripe, used MongoDB to store outfit bundles, and styled the front-end using BootstrapCSS

### Finstagram (MySQL/Python/Flask)

November 2019 - December 2019

- Designed an Instagram-like application where a user can post a picture, add friends to groups and search a photo by a tag or username

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

July 2019 - August 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)

June 2019 - July 2019

- Wrote a program that determines the cost-efficiency of buying a car vs. commuting via rideshare using user-defined variables such as miles traveled per year, MPG, and annual insurance cost

### To Do List (Swift)

June 2018 - August 2018

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

### Tic Tac Toe (Swift)

March 2018 - April 2018

- Designed and implemented an algorithm for tic-tac-toe on the iOS platform using Swift, and optimized the layout to be compatible on the iPhone X

## ACTIVITIES

**NYU Machine Learning Club** · Event coordinator of the executive board

January 2020 - Present

- Advertise events on social media pages and help host workshops on introductory machine learning methods in Python

**NYU Class Activities Board** · Member

September 2017 - Present

- Assist club leaders in planning study breaks, game nights, and free food events