

# SWAPNIL KHA

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## EDUCATION

### New York University Tandon School of Engineering

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, Operating Systems, Computer Networking, Artificial Intelligence, Software Engineering

## SKILLS

**LANGUAGES:** Python, Java, C++, C, Swift, C#/.NET, HTML, JavaScript, CSS

**DATABASES:** MySQL, MongoDB

**TOOLS/Frameworks:** Gatsby.js, Xcode, Node.js

**ADDITIONAL:** Git, Linux, Agile

## EXPERIENCE

### Sirvisetti Systems

**Software Engineer Intern** · Princeton, NJ

June 2019 - August 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 GatsbyJS application 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** · 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.
- Using JavaScript, programmed flow input and outputs which calculate sales commissions with 100% accuracy
- Coded an EDI parser which converts sales rep info. in EDI format to JSON, which the adapter uses to calculate sales commissions

### Gopeer

**Computer Science/Math Tutor**

March 2019 - Present

- Tutored 7 students so far in various subjects including 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 app where a user can post a picture, add friends to groups and search a photo by a tag or username
- Planned out and implemented a MySQL database which stores user info, and created 10 custom test cases which all passed

### 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

- 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

## ACTIVITIES

**NYU Machine Learning Club** · Event coordinator

Present

- Advertise events on Facebook and Instagram pages and host workshops on introductory machine learning methods in Python

**NYU Class Activities Board** · Member

Present

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