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, Data Analysis, 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 · Princeton, NJ
Software Engineer Intern   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   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): Team Project   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