

# Mehakpreet Kaur

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## Education

**New Jersey Institute of Technology**, Newark, NJ, USA

Sept 2019 – May 2023 (expected)

GPA: 3.85/4.0

*Bachelor of Science in Computing and Business*

*Minor in Data Analytics*

## Skills and Relevant Coursework

**Relevant Coursework:** Programming Language Concepts, Data Structures & Algorithms, Object-oriented Programming, Calculus II, Probability & Statistics, Operating Systems, Database Design and System Management, Intensive Programming in Linux, Computer Networks

**Programming Skills:** Python (3.5 yrs), Java (2yrs), C++(1yr), SQL (1 yr), Bash, React Native, HTML, CSS, JavaScript

**Technologies & Frameworks:** AWS, Django, Rasa, Linux, Git, Jira, Jenkins, Salesforce, Docker, TablePlus, WinSCP, PuTTY

## Work Experience

**New Jersey Institute of Technology**, Newark, NJ, USA – *Teaching Assistant for Intro to Java and Python*

Jan 2021 – Present

- Leading weekly office hours for 35+ students and grading supplemental material (homework, labs, quizzes)
- Supported students that needed more help troubleshooting problems and tutored them individually

**Noodle**, New York City, NY, USA – *Software Engineer Intern*

Jun 2021 – Aug 2021

- Developed a **Django**-based Dashboard to keep record of the company's AWS spend and reduced costs by 4%
- Upgraded Pipelines by refactoring code for consistency in the codebase
- Used **TablePlus** and **SQL** to extract AWS data and **Docker** to maintain same development environment

**Bricks 4 Kidz**, Newark, NJ, USA – *Marketing Support Specialist Intern*

Feb 2021 – May 2021

- Used **Python** (libraries like pandas, smtplib, and regex) to filter out nearly 2,000 invalid emails and help identify students with wrong contact information
- Made cost savings of about \$200 by avoiding online email filtering services

**Johnson & Johnson**, New Brunswick, NJ, USA – *Technology Awareness Program Participant*

Sept 2020 – Nov 2020

- Proposed solutions for issues faced in sales after the Affordable Care Act by over 200 J&J clients
- Designed a prototype application using marvelapp.com to incorporate proposed solutions

**CERN (European Council for Nuclear Research)**, Geneva, Switzerland – *Student Intern*

Jun 2017

- Selected as one of the seven students to participate internationally in a particle physics internship
- Experimented in the same labs that invented the World Wide Web
- Learned about the history and fundamentals of particle physics and the discovery of Higgs Boson

## Leadership Experience

**New Jersey Institute of Technology**, Newark, NJ, USA – *Orientation Leader and Peer Mentor*

Jan 2021 – Present

- Organized the new student orientation scavenger hunt and found creative ways to win the game
- Encouraged energy and enthusiasm in students and helped them with their high-school-to-college transition

**New Jersey Institute of Technology**, Newark, NJ, USA – *Ambassador for Data Science Club*

Sept 2021 - Present

- Acting as a liaison between graduate and undergraduate students
- Attracting interested students to explore DS concepts and expand the club's outreach

**New Jersey Institute of Technology**, Newark, NJ, USA – *Outreach Assistant for Women in Computing*

Jan 2021 – May 2021

- Organized presentations for high school students and encouraged them to take on STEM majors
- Spoke about my personal experiences and helped increase the percentage of women at NJIT to nearly 25%

## Projects

**Foody Calls**, Livingston, NJ, USA – *Co-Founder, Project Manager and Software Engineer*

Feb 2021 – Present

- Leading a team of three students and assisted by NJIT's IT department to build an e-commerce app and website (<https://thefoodycalls.wixsite.com/website-1>)
- Benefits student customers and food outlets providing hourly discounts based on volume of demand
- Currently developing iOS and Android apps using React Native to complement the website
- Used Marvel to make the prototype of the application

**Technology Healthcare Bigdata**, Gurgaon, Delhi, India – *Data Analytics Intern*

Jul 2020 – Sept 2020

- Designed and constructed a **Natural Language Processing** (NLP) model as a chatbot using Rasa framework (<https://www.shalby.org/>)
- Incorporated a **Machine Learning** model into the chatbot to increase accuracy of predictions from 72% to 93%

**Simulation of NJIT Campus**, Newark, NJ, USA – *Team Lead, Project Manager and Game Developer*

Apr 2020

- Developed a simulation game using GameMaker Studio 2.0 within five days to provide a platform for virtual NJIT campus tours (<https://github.com/Mehakpreet21/NJIT-Campus-Simulation>)
- Won the "Love in the Time of COVID" competition consisting of 300 participants