

POOJA KEDIA

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EDUCATION

B.S. in Computer Science & B.A. in Economics- **Rutgers University Honors College** GPA: 4.0/4.0 New Brunswick, NJ (2023-2027)

TECHNICAL EXPERIENCE

Research Assistant

Rutgers University Crowd Simulation Lab February 2024- Present

- Employed machine learning algorithms to optimize crowd simulation model parameters for increased accuracy
- Developed interpolation Python scripts to map vector data onto continuous functions for prediction algorithms
- Designed tactics to optimize building design, enhancing safety, based on predicted crowd behavior during evacuations

RnD Developer

HackRU Jan 2024- Present

- Developed API endpoints in NodeJS using AWS Serverless architecture, incorporating services such as AWS Lambda, API Gateway, and using MongoDB. Wrote comprehensive unit tests for endpoints using Jest to ensure reliability and maintainability
- Implemented backend endpoints into live UI components of the hacker dashboard webpage using ReactJS and Next.js frameworks accessed by over 300 attendees every term

Assignment Developer

Rutgers University Computer Science Department Jun 2024 – Jul 2024

- Developed Computer Science coding-based assignments distributed to over 1500+ students
- Designed a Data Structures (CS112) assignment featuring a two-level Hash Table to analyze real cyber-crimes analytics
- Awarded for producing most assignments for upcoming academic year within program

Machine Learning Research Intern

Machine Learning in Enzyme Interaction Lab- Princeton University June 2022- August 2022

- Developed data-scraping tools to assist and expedite polymer data collection process, ensuring quality data
- Built neural network architecture models to classify polymers based on given attributes
- Mapped characteristics and completed data featurization to observe patterns among polymer characteristics

Section Lead

CS106A Stanford University Apr 2024- May 2024

- Led students in various problem solving exercises, enhancing critical thinking and analytical skills
- Instructed students across the world on foundational and core Computer Science and analytic skills
- Facilitated sessions to teach and optimize coding solutions, helping build efficient and effective programming techniques

PROJECTS

iCloset

- Built a web application for keeping track of your wardrobe or design portfolio using NextJS and Firebase, Users can store, upload, and capture clothing items with an integrated webcam feature that uses Google's Vision API to create meaningful image labels, enhancing project with a custom personalized recommendation system.

Scarlet Exchange

- Built a React Native application that acts as a marketplace for Rutgers students to buy and sell college essentials. Employed Firebase for user authentication and database management. Allows users to create and manage listings as well as navigate and view listings to purchase.

Teen Money Management App Development:

- Built a mobile budgeting responsive app catered to teenagers using Python with a Tkinter based UI, employing an SQL Database for the backend.

SKILLS

Python, Java, JavaScript, C, Data Structures, Algorithms, Google Cloud, Machine Learning, AWS, SQL, No-SQL, React, React Native, Next, Tensorflow, Keras, Arduino, Git, Unit Testing, Computer Aided Design, R programming, API Development, Flask, Bootstrap