

# Chirag Godha

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## EDUCATION

### Rutgers University

Bachelor of Science in Computer Science and Data Science

New Brunswick, NJ

August 2021 – December 2024

### Relevant Coursework

Data Structures & Algorithms, AI and Machine Learning, Information and Data Management, Discrete Structures I/II

## EXPERIENCE

### Software Engineering Intern

June 2024 – August 2024

CBRE

Dallas, TX

- Engineered Pandas script to clean and parse security data for MongoDB injection increasing productivity by 30%
- Utilized Google Maps API to generate interactive heat-maps and POI information for 10000+ properties
- Monitored user data through Segment and built multiple-regression models using Python to generate predictions
- Created a classification model that monitored user traffic and classified real vs bot traffic with 90% accuracy

### Software Engineering Intern

June 2023 – August 2023

Capital One

McLean, VA

- Developed triaging software that resolved over 90% of false-positive alerts using Python's Boto3 library
- Utilized PagerDuty and RDS API's to create data visualizations on impacted customer and database segments
- Brought in savings exceeding \$10K in server downtime and engineer on-call expenses
- Participated in summer boot-camp learning React.js, Swift and Golang for modern software development

### Private Online Tutor

May 2022 – September 2022

iD Tech Camps

Remote

- Tutored 150+ children in one-on-one lessons on topics such as Mathematics and Computer Science
- Employed diagrams to better communicate data structures, leading to a 20% increase in student comprehension
- Collaborated with managers and clients on a daily basis, to curate an optimal learning environment

## PROJECTS

### Computer Vision Network | Python, PyTorch, NumPy, Matplotlib

November 2023

- Engineered multiple neural networks to achieve over 95% accuracy in identifying objects using CIFAR-10 dataset
- Incorporated a classification model using dense linear and 2D Convolutional layers to train image features
- Implemented ridge and lasso regularization techniques, reducing model over-fitting by 40% while improving model generalization, which resulted in a 25% increase in testing accuracy
- Optimized model structure using batch and layer normalization to decrease model training time by 14%

### Sentiment Analysis IOS | Swift, Golang, Python

June 2023

- Spearheaded the development of an iOS app for sentiment analysis, utilizing Python's TextBlob to analyze text
- Integrated user OAuth functionality via Spotify SDK within Swift, ensuring secure access to real-time user data
- Implemented a robust database system using Golang to support local storage for 1000+ journal entries

### Airline Agency Fullstack Site | MySQL, Java, SpringBoot, JSX

December 2023

- Developed MySQL database with 5K+ data entries and optimized code for efficient data storage and retrieval
- Integrated backend database with frontend JSX using Java Spring Boot, following CI/CD paradigms
- Utilized embedded JSX for frontend UI design and implementation, enhancing user experience and interaction

## TECHNICAL SKILLS

**Languages:** Java, Python, R, C/C++, MySQL, Golang, JavaScript, HTML/CSS, Swift, Kotlin

**Frameworks:** React, Node.js, Flask, FastAPI, Lit JS

**Developer Tools:** Git, Docker, Jenkins, AWS, Azure DevOps, Jira, Figma

**Libraries:** pandas, NumPy, Matplotlib, PyTorch, Boto3, TextBlob