Neil Goyal

US Citizen | Atlanta, GA | 404-542-0256 | ngoyal48@gatech.edu | linkedin.com/in/neilgoyal/ | github.com/neilgoyal

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science

Expected Graduation, May 2025

• Concentrations: Intelligence and Information Internetworks

EXPERIENCE

Software Engineering Intern

June 2021

Hackershala Pvt. Ltd.

- Developed a Network Intrusion Detection System (IDS) that uses machine learning to detect and flag malicious activity on a server.
- Developed the random forest classifier model (≈96% test accuracy) using Python and scikit-learn.
- Processed and cleaned data using pandas and NumPy.
- Deployed the model as a RESTful API using Python and Flask for public use.

Software Engineering Intern

June 2020 – July 2020

Gurugram Police Cybersecurity Cell

- Shadowed industry experts to learn more about different fields in cybersecurity, from cyber crimes and law to common vulnerabilities and how to defend against them.
- Developed tools such as honeypots (decoy network systems) to assist law enforcement agencies and forensics.
- Utilized Kali Linux (a Linux distro) and several tools such as Burp Suite, Nmap, and Wireshark.
- Competed in and won multiple state-level Capture The Flag competitions.

Research Intern

June 2020 - July 2020

 $Sushant\ University$

- Researched how technology could be used to diagnose and aid those with neurodevelopmental disorders.
- Created a game application with an integrated diagnostic test to aid in the early detection of dementia, Alzheimer's, and similar cognitive impairments (200+ installs on the Google Play Store).
- Developed the game using the Unity Engine and C#.
- Published a research paper summarizing the project and key findings.

Projects

DayTrak | github.com/neilgoyal/DayTrak

Dec. 2020 – March 2022

- Developed an application using Flutter that allows students to view a personalized timetable and assignment manager (Officially adopted by my school 400+ installs).
- Utilized Firebase for Google Auth and storing user data in the cloud.
- Served real-time data to the application using a RESTful API developed in Python and Flask.

SafeSurf | github.com/neilgoyal/SafeSurf

June 2020 – June 2021

- Developed a Chrome extension using JavaScript and HTML/CSS that uses machine learning to flag malicious and fraudulent websites.
- Built an SVM (Support Vector Machine) model using Python and scikit-learn to flag the aforementioned sites.
- Implemented a neural network using Python, TensorFlow, and Node.js (≈97% test accuracy).

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C/C++, C#, Kotlin, Dart, Swift, GNU Octave, MATLAB, SQL, HTML/CSS

Frameworks: TensorFlow, Flutter, Node.js, Flask, Django, WordPress, Keras, PyTorch, Unity Engine

Developer Tools: Git, Docker, Firebase, Kubernetes, Google Cloud Platform, AWS, Heroku

Libraries: pandas, NumPy, Matplotlib, scikit-learn, OpenCV, SciPy, NLTK, Requests, Theano, LightGBM, Selenium Concepts: Data Structures and Algorithms, Object-Oriented Programming, Cloud Computing, Machine Learning, Deep Learning, Computer Vision, Human-Computer Interaction