

NAMAN TIWARI

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naman-sopho.github.io

github.com/Naman-sopho

SPECIALIZED SKILLS

Programming: Python, Java, C, OCaml, C++, PHP, Go, R, JavaScript

Technologies: React, Flask, jQuery, PyTorch, Tensorflow, SQL, REST API Design

EDUCATION

JOHNS HOPKINS UNIVERSITY, Baltimore, MD

Master of Science Degree in Computer Science: Expected December, 2020

Graduate coursework: Machine Learning, Deep Learning, Artificial Intelligence, Parallel Programming, Object Oriented Software Engineering, Principles of Programming Languages

INDIAN INSTITUTE OF TECHNOLOGY, Dhanbad, JH, INDIA

Bachelor of Technology Degree with Honors: July, 2019

Major: Electrical Engineering **Minor:** Computer Science

Undergraduate coursework: Algorithms and Data Structures, Operating Systems, Databases

EXPERIENCE

JOHNS HOPKINS UNIVERSITY, Center for Neuroplastic Surgery, Baltimore, MD

IOS Developer

June 2020 - Present

- Developed an iOS app from scratch to control a patented brain implant.
- Implemented firmware code for the implant device to communicate with the app via Bluetooth.

JOHNS HOPKINS UNIVERSITY, Laboratory for Computational Sensing and Robotics, Baltimore, MD

Machine Learning Research Assistant

December 2019 – May, 2020

- Developed a machine learning algorithm to estimate the force applied by the operator on a daVinci Robot.
 - Developed a pipeline to read data from ROS and transfer neural network results to the robot in real time.
 - **Technologies Used:** Python, Pytorch, Cuda
- Repository:** <https://github.com/Naman-sopho/ForceEstimation>

JOHNS HOPKINS UNIVERSITY, Project Sponsored by CISCO, Baltimore, MD

Programmer Research Assistant

February 2020 - Present

- Developed a website and cryptographic algorithm content for Cisco-sponsored research concentrated in algorithms using Go.

RADICALI, SINGAPORE

Frontend Developer Intern

March – July 2019

- Developed and deployed the organization's customer facing dashboard web app using React, resulting in improved user experience and the acquisition of 4 new commercial clients over the course of one month).
- Persuaded stakeholders to replace existing vanilla JavaScript with React, resulting in improved user experience and the acquisition of at least 4 commercial clients
- Implemented several user pages, including an intuitive method to view and annotate NLP driven document comparison results.

Technologies Used: React, Redux, Flask, Python, JavaScript, NodeJS, SQL

GOOGLE SUMMER OF CODE, Online

Developer

March – August 2018

- Developed a new village management gameplay template with over 100 active players.
- Actively contributed to the project with 50+ merged PRs.
- **Blog:** <https://naman-sopho.github.io/tags/#GSoC> **Youtube:** <https://youtu.be/F5CGijePnBA>
- **Technologies Used:** Java, Groovy, Gradle, Git

RESEARCH EXPERIENCE

"Judging a Book by its Cover," Published at IEEE Region 10 Symposium

- Implemented and compared model performances for the classification of books into genres based on their cover images. Compiled and deployed the model on Intel Neural Compute Stick.
- IEEE Xplore: <https://ieeexplore.ieee.org/abstract/document/8971238>