

EDUCATION

- Baltimore, MD, USA** **Johns Hopkins University** **Aug 19 – Dec 20**
- Master of Science in Computer Science
 - Graduate coursework: Machine Learning, Deep Learning, Artificial Intelligence, Parallel Programming, Object Oriented Software Engineering, Principles of Programming Languages
- Dhanbad, JH, India** **Indian Institute of Technology** **Jul 15 – Jul 19**
- Bachelor of Technology (Hons) Electrical Engineering with Minor in Computer Science
 - Undergraduate coursework: Algorithms and Data Structures, Operating Systems, Databases

EXPERIENCE

Programming Languages: **Python, Java, C++, OCaml**

- iOS Developer** **Center for Neuroplastic Surgery, Johns Hopkins** **Jun 20 – 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.
- Graduate Research Assistant** **LCSR Johns Hopkins** **Dec 19 – May 20**
- Developed a machine learning algorithm for estimation of the force applied by the operator on a daVinci Robot. **Technologies Used:** Python, Pytorch, Cuda
 - Developed a pipeline to read data from ROS and then transfer the neural network results to the robot in real time. **Repository:** <https://github.com/Naman-sopho/ForceEstimation>
- Graduate Research Assistant** **Cisco and JHU** **Feb 20 – Present**
- Developed the website and cryptographic algorithm content for Cisco sponsored research concentrated in algorithms in Go .
- Frontend Developer Intern** **Radicali** **Mar 19 – Jul 19**
- Developed and deployed, from scratch, the organization's customer facing dashboard using React (improved user experience helped acquire 4 new commercial clients in a month).
 - Convinced stakeholders to switch from vanilla JavaScript to React thus improved user experience and acquired 4+ commercial clients
 - Implemented several pages for users, including an intuitive way to view and annotate the NLP driven document comparison results.
 - **Technologies Used:** React, Redux, Flask, Python, JavaScript, NodeJS, SQL
- Student Developer** **Google Summer of Code** **Mar 18 – Aug 18**
- Developed a new village management gameplay template with over 100 active players.
 - Active contributor to the project with over 50 merged PRs.
 - **Blog:** <https://naman-sopho.github.io/tags/#GSoC> **Youtube:** <https://youtu.be/F5CGjjePnbA>
 - **Technologies Used:** Java, Groovy, Gradle, Git

RESEARCH EXPERIENCE

- Judging a book by its cover** **Published at IEEE Region10 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>

SKILLS

Programming Languages: Python (Proficient), Java (Proficient), C, OCaml, C++, PHP, Go, **R** **Technologies:** React (Proficient), Flask (Proficient), jQuery, PyTorch, Tensorflow, SQL, REST API Design