

# PARTH VIDYADHAR NATU

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## EDUCATION

### The Pennsylvania State University

M.S. Computer Science and Engineering *GPA: 3.5*

State College, PA, USA

Aug 2018 - May 2021

### SRM Institute of Science and Technology (SRM University)

B.Tech Electronics and Communication Engineering *GPA: 3.77*

Chennai, India

Aug 2014 - May 2018

## EXPERIENCE

### Sciformix Technologies (now Covance)

*Software Engineer - Intern*

Mumbai, India

June, 2018 - June, 2019

- Worked on Text Analysis, Natural Language Processing, Robotic Process Automation (RPA)
- Successfully deployed an RPA based data retrieval tool into production based on the Agile methodology
- Used scikit-learn to create a prototype text classifier for patient complaints

### The Pennsylvania State University - CSE Department

*Learning Assistant - Database Management Systems (CMPSC431W)*

State College, PA

Jan 2020 - May 2020

- Assisted the TAs and the instructor in creating assignments
- Held office hours to assist students with the coursework
- Graded assignments

## OTHER EXPERIENCE

### Software Lead - Team SRMAUV

2015 - 2018

Responsible for the software development of an Autonomous Underwater Vehicle (AUV) and the recruitment of new team members

## SKILLS

Programming Languages:	Java, Python, C
Databases:	My SQL
Technologies:	Selenium, Robot Operating System, git
Web Development:	HTML 5, CSS 3, JavaScript
Hardware:	Arduino, Raspberry Pi
Hosting:	Azure, AWS, DigitalOcean, DuckDNS
Other:	Linux

## PROJECTS

**PennConnect JS, PHP, MySQL, Neo4j, HTML5, CSS3** <https://github.com/parthnatu/pennconnect>

A full-stack social network using Neo4j and MySQL

**P2P-CDN Simulator C, ns3, Wireshark**

<https://github.com/gauravkc2794/p2p-cdn/blob/master/CN-PRESENTATION.pdf>

A ns3 based P2P-CDN Network Simulator

**Patient Verbatim Text Classifier scikit-learn, Python, HTML5, CSS3, Flask**

Implemented a text classification model using scikit-learn to classify patient complaints to the diagnosis

**Autonomous Underwater Vehicle (AUV) Python, Arduino, Robot Operating System, C++**

[https://robonation.org/app/uploads/sites/4/2019/10/SRM\\_RS17\\_Paper.pdf](https://robonation.org/app/uploads/sites/4/2019/10/SRM_RS17_Paper.pdf)

An autonomous submarine for research and competitive purposes

**Apollo Robot Operating System, Google Assistant API, Amazon Alexa API, Python, Raspberry Pi**

<https://github.com/parthnatu/apollo>

A "Google Home-esque" robotic virtual assistant

**hnfx Java, JavaFX, Maven**

<https://parthnatu.github.io/hnfx/>

A simple JavaFX based client for HackerNews