

PARTH VIDYADHAR NATU

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EDUCATION

The Pennsylvania State University

M.S. Computer Science and Engineering *GPA: 3.57*

State College, PA, USA

Aug 2019 - 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

Software Engineer - Intern

Sciformix Technologies (now Covance)

Jun 2018 - Jun 2019

Mumbai, India

- 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
- Used Python and Java (using Maven)

The Pennsylvania State University - CSE Department

Learning Assistant

State College, PA

Jan 2020 - Dec 2020

- Courses : Database Management Systems (CMPSC431W) and Introduction to Data Mining (CMPSC497)
- Assisted the TAs and the instructor in creating assignments
- Held office hours to assist students with the coursework
- Graded assignments

SKILLS

Programming Languages:	Java, Python, C, C++
Web Development:	HTML 5, CSS 3, JavaScript, REST APIs
Databases:	MySQL
Technologies:	Selenium, Robot Operating System (ROS), git
Hardware:	Arduino, Raspberry Pi
Hosting:	Azure, AWS, DigitalOcean, DuckDNS
Other:	Linux

PROJECTS

PennConnect *JavaScript, PHP, MySQL, Neo4j, HTML5, CSS3*

A full-stack social network using Neo4j and MySQL

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

P2P-CDN Simulator *C, ns3, Wireshark*

A ns3 based P2P-CDN Network Simulator

Autonomous Underwater Vehicle (AUV) *Python, Arduino, ROS, C++*

An autonomous submarine for research and competitive purposes

Apollo ROS, Google Assistant API, Amazon Alexa API, Python, Raspberry Pi

A "Google Home-esque" robotic virtual assistant

hnfx *Java, JavaFX, Maven*

A simple JavaFX based client for HackerNews

OTHER EXPERIENCE

Software Lead - Team SRMAUV

2015 - 2018

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