

# SMRITHI PYARI LAL

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in Smrithi | Devpost: Smrithi |

## EDUCATION

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**Drexel University**, Philadelphia, PA

*B.S. in Computer Science*

June 2023

GPA: 3.81/4.00

### Relevant coursework :

Computer Programming I, II (CS 171/172 **Python**)

Advanced Programming Techniques (CS 265 **Bash & C**)

Systems Architecture (CS 281)

Introduction to Software Engineering (SE 181 **Express**)

Mathematical Foundations of CS (CS 270 **Racket**)

Web and Mobile App Development (CS 375 **JavaScript**)

## WORK EXPERIENCE

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**Shibaura Institute of Technology**, Artificial Intelligence Development Intern

[github.com/smrithipyarilal/obstacleDetection](https://github.com/smrithipyarilal/obstacleDetection)

June 2018 - August 2018

Tokyo, Japan

- Created an **AI robot to detect obstacles** using **URG sensor** by observing use case in robotics and self-driving cars
- Implemented a **Decision Tree model** on **Jupyter Notebook** using **Python** with 15 experimentally acquired data sets and applied the results to test **52 Beego robots in the Shibaura Micromechatronics laboratory**
- Test results confirmed an **88% accuracy** of the program
- Presented extensive test cases at **Annual Shibaura conference**

## PROJECTS

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### loveLang

September 2020

[Devpost.com/software/lovelang](https://devpost.com/software/lovelang) - **DragonHacks 2020 Winner**

- A Google Chrome extension that **replaces words on a page with words from a new language of the users choice** to learn the language while browsing the web
- The word to replace is selected by **analysing the frequency of all words** on any given page
- Built using **Google Translate API, Javascript, Express and MongoDB**

### Chess25

August 2020

[Github/smrithipyarilal/ChessGame-SE181](https://github.com/smrithipyarilal/ChessGame-SE181)

- A **real-time multiplayer** chess game allowing two players to play against each other from a remote location with move validation and platform structure constructed from ground-up.
- Built using **JavaScript (Express.js, Node.js, Socket.io)** & maintained using **Git Version Control**
- Tested using **ESLint, Jest, TrackJS**

### Bash Scripts and C Projects

August 2020

[Github.com/smrithipyarilal/bashAndC](https://github.com/smrithipyarilal/bashAndC)

- **countTheZoo** - A Bash script that takes a filename, start directory and word as arguments and visits every subdirectory in search of the file name and returns the line in the file containing the specified word
- **BashDB** - A Bash script that maintains a database when initiated. The user can create a new database or modify an existing file. The script allows the user to add new entries, delete entries or print all entries in a database
- **Deterministic Finite Automaton** - A C program that takes a string or a file of input strings and determines if the inputs are valid or not according to the state rules

### Foodie

June 2020

[Github/smrithipyarilal/Foodie](https://github.com/smrithipyarilal/Foodie)

- Foodie is a web based platform that connects those in need of food to those who would like to share their food details. Users must register to add, modify or delete the information they provide at any time.
- Built using **Javascript, HTML5, CSS3, Firebase (Authentication, Firestore)**

## INVOLVEMENT & RECOGNITION

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- **vGHC '20 Scholar** by Anita B.org

September 2020

- **Member of Drexel Women in Computing Society (WiCS)**

September 2019-2020

- **Member of Drexel CyberDragons**

September 2019-2020

- **Drexel Dean's Honors List '19, '20**

September 2019-2020

- **A.J Drexel Scholarship and Drexel Grant**

March 2019