

# Venkata Namburi

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## EDUCATION

### NEW JERSEY INSTITUTE OF TECHNOLOGY

M.S IN COMPUTER SCIENCE  
Jan 2018 - Dec 2019 | Newark, NJ

### BMS COLLEGE OF ENGINEERING

B.ENG IN COMPUTER SCIENCE  
Aug 2013 - May 2017 |INDIA

## LINKS

GITHUB: [bharatvarmagit](#)

LINKEDIN: [in/nvbw](#)

PORTFOLIO: [Portfolio.io](#)

## SKILLS

### PROGRAMING LANGAUGES

- CORE JAVA 8 • JAVASCRIPT
- PYTHON • TYPESCRIPT
- MULTI THREADING
- ASYNCHRONOUS PROGRAMMING

### FRONT END

- HTML 5 • CSS 3 • BOOTSTRAP 4
- JAVASCRIPT ECMA 6 • PROMISES
- JQUERY • AJAX • ANGULAR 7+

### BACK END

- JAVA SPRING • SERVLETS • JSP
- DATA JPA • JDBC • HIBERNATE
- OAUTH 2 • SPRING MVC • JWT
- REST API • SPRING BOOT • GIT
- SQLALCHEMY • FLASK • NODE.JS
- MONGODB • MULTI-THREADING
- ASYNCHRONOUS PROGRAMMING
- SPRING SECURITY • JSTL

### DATABASES

- AWS- S3, RDS • MYSQL •SQLITE
- POSTGRES • H2 • MONGODB

### FAMILIAR WITH

- AWS - EC2, ELASTIC BEANSTALK
- AGILE • DOCKER • JIRA • JENKINS
- JUNIT • MOCKITO

## PROFILE

- Familiar with complete Software Development Life Cycle
- Experience in designing Rest API using Java Spring Boot, Spring MVC, Data JPA, Security.
- Experience in using Angular UI Framework to develop highly scalable and secure Single page Apps with Authentication and Authorization (JWT, Oauth)
- Experience in RDBMS and NRDMS and ORM's (Hibernate, SQLAlchemy)
- Good understanding of Devops process ( Jira, Jenkins for Continuous Integration and Continuous Delivery)
- Good understanding of Network Protocols and Sockets

## PROJECTS

### TERRAGON | MEMBER OF LEAN STARTUP PITCH TEAM

Feb 2019 – May 2019 | Newark, NJ

- Our team won Grant from NSF I-CORPS based on our "Lean Business" model Canvas pitch which was a part of our Lean Startup course
  - Led Customer Discovery and Idea Validation process to test and validate Problem and Solution with around 100 Customers by the End of the Course
  - Developed SPA using Angular Forms, Spring Boot, Hibernate, Oauth
- Technologies Used: Angular 8, Bootstrap4, jQuery, Spring Data JPA, Spring Rest Repositories, MySQL, Spring Security

### E-COMMERCE BOOK STORE

Apr 2020 – Present | Newark, NJ

- Developed a Single Page E-commerce Web Application for Books using Spring boot for Back-end and Angular 8 for Front-end
  - Used Spring Web framework to create RESTFUL API gateways that interacts with MySQL database using Spring Boot Web, Spring DATA JPA, Spring Rest Repositories and Spring MVC .
  - Used Bootstrap 4 and angular 8 for UI design to render data from API gateways and perform CRUD operations on the Database using Spring boot JPA ORM and Git for Version Control
- Technologies Used: Eclipse, VS code, Java 8, Angular 8, Spring boot Web framework, Bootstrap 4, Hmtl5, CSS3, Git
- SOURCE CODE: [Book-Store](#)

### SOCIAL MEDIA RECOMMENDATION ENGINE

Nov 2019 - Dec 2019 | Newark, NJ

- Finds all Strongly and weakly Connected Components , Isolated Nodes, top 100 Influencers from a Directed and Undirected social media graph data .
  - Includes Recommendation Engine that determines the number of paths/walks possible between two Persons
- Technologies Used : Python, jupyter notebook, DFS Algorithm, Kosaraju algorithm
- Datasets Used: [Stanford large social network data sets](#)
- SOURCE CODE: [Social Recommendation Engine](#)

## COURSEWORK

### GRADUATE

Software Prod. Methodologies  
Advanced Algorithm Design  
Data Analytics With R lang  
Advanced Database Design  
Cloud Computing  
Internet and High Level Protocols  
Data Mining  
Object oriented Programming  
Cryptography and Security  
Lean Startup

### UNDERGRADUATE

Intro to Data Structures  
Analysis of Algorithms  
Computer Architecture  
Logic Design  
System Software  
Machine Learning  
Artificial Intelligence  
Computer Networks  
Java Programming  
Programming in C  
Programming in C++  
C# AND ASP.NET  
Web Development  
System Testing  
Advance Database Design  
Unix Programming  
Data Communications

### LANGUAGES

English  
Telugu  
Hindi

## PROJECTS (CONTINUATION)

### COLLEGE DATABASE Oct 2018 – Dec 2018 | Newark, NJ

- Designed and Developed the relational database management systems (RDBMS) schema and constraints, drawn Entity Diagram
  - creating DDL commands, DML commands and TCL
  - Integrated SQL database constraints such as Referential integrity, Null, default, check and Unique
  - Developed SQL, PL/SQL with Stored Procedures to interact with Persistent database using MySQL.
- Technologies Used: MySQL, MySQL Workbench

### HOME AUTOMATION USING RASPBERRY PI | TEAM MODERATOR Sept 2018 – Dec 2018 | Newark, NJ

- Collaborated with 2 electronics students and Created Home Automation System that is easy to set up and maintain using E-mail Protocols to control various Appliances with Raspberry pi Micro Controller
  - Created a Flask-Twilio API Web Server using Python to send instructions and receive acknowledgements from Raspberry pi Server via Cellular messages and E-mails.
- Technologies Used: Python, Flask, ngrok, Flask-Twilio API, Ubuntu
- SOURCE CODE: [Home Automation](#)

### JOURNAL WEB SCRAPING Nov 2019 – Dec 2019 | Newark, NJ

- Retrieves all articles present in the journal and downloads it as a file with following columns: Article Name, Authors, Content Type, Abstract, DOI, Link, Full Paper from the following journal [Genomebiology.biomedcentral.com](http://Genomebiology.biomedcentral.com)
- Technologies Used: R Lang , Rvest (R library for scraping Web Data)
- SOURCE CODE: [Web Scraper](#)

### MARKET BASKET ANALYSIS

Oct 2019 – Nov 2019 | Newark, NJ

- Determine buying habits of customers using Apriori Algorithm Knowledge analysis in Python which is a type of frequent item-set mining by finding Associations between different items when given a set of transaction data
- Technologies Used: Python, Apriori Algorithm (Data Mining)
- SOURCE CODE: [Analyse Buying Habits](#)