

# Heet Dave

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## EDUCATION

### M.S. in Computer Science

Arizona State University, USA

Aug. 2019 - Exp. May 2021

GPA: 3.72

**Coursework:** Intro to AI, Principles of Programming Languages, DBMS Implementation, Mobile Computing

### B.Tech in Information and Communication Technology

Dhirubhai Ambani Institute of Information and Communication Technology  
(DA-IICT), India

Aug. 2014 - May 2018

## TECHNICAL SKILLS

**Languages** C++, Java, Python, Javascript, C, C#

**Web** ReactJS, Redux, AJAX, Java SpringBoot, ASP.NET WebAPI, AWS S3, DynamoDB, EC2 & Athena, HTML, CSS

**Databases** MSSQL, MySQL, PostgreSQL

**DevOps Tools** Jenkins, Docker, Airflow

**Other Tools** Git, JIRA

## PROFESSIONAL EXPERIENCE

### Apollo Education Group, Phoenix, AZ

Jun. 2020 - Present

#### Software Engineering Intern

- Created an ETL pipeline to process students and course data generated by Blackboard using Python and AWS Glue which involved use of microservices, DynamoDB, S3 and RedShift.
- Created data pipeline using AWS Athena for data generated by Blackboard in AWS S3. Leveraged partitioning in AWS Athena which reduced the data retrieval time significantly. Used Airflow for scheduling jobs.

### Endurance International Group, Bangalore, India

Dec. 2018 - Jul. 2019

#### Software Engineer

- Developed front-end of Manual Billing Engine using ReactJS/Redux for 13K+ WebPros and Resellers of WebPro Panel (Reseller-Club.com) to provide better user experience by eliminating need for 3rd party billing tool.
- Integrated a newer set of APIs related to customers and orders with WebPro Panel front-end (ReactJS) and Orchestration Layer (Java SpringBoot) which reduced loading time of the panel.
- Researched about Docker Secrets, HTTP/2 server push and Material-UI for future performance enhancements.

### Fintech Global Center, Gandhinagar, India

May. 2018 - Dec. 2018

#### Software Engineer

- Engineered administrative web applications using ASP.NET WebAPI, Javascript/jQuery and MSSQL to view/filter/export trading data, manage users/access and software distribution for the new trading platform targeted for financial institutions of Asia.
- Setup Continuous Integration (CI) using Jenkins for the majority of projects which streamlined the deployment process increasing the efficiency of DevOps.
- Researched Docker and Dockerized web application for future setup of Continuous Deployment (CD).
- Created SFTP (SSH File Transfer Protocol) client using C++ to send trading data securely to the client's server.

### Indian Space Research Organisation (ISRO), Ahmedabad, India

Jan. 2018 - May. 2018

#### Intern

- Automated SRS document checking process by developing Natural Language Processing and Neural Network (NN) based tool using Python and NLTK library.
- Used probabilistic N-gram language model and Part-of-Speech tagging to generate input features for NN. Trained NN using the Backpropagation algorithm.

## PROJECTS

### Compiler, ASU

Aug. 2019 - Dec. 2019

- Created a compiler to detect syntactic and semantic errors in input program and execute it upon successful compilation.

### Pathfinding in Pacman game, ASU

Sep. 2019

- Using Python implemented various pathfinding algorithms such as A\* search, Uniform Cost Search and Minimax Algorithm with Alpha-Beta pruning to search a path for Pacman to get to a goal in maze with ghosts.

### Easy Website (Independent project) [ [github.com/rangheet/easy-website](https://github.com/rangheet/easy-website) ]

Feb. 2019 - Apr. 2019

- Designed and implemented web application for creating portfolios which also has facility to host them as your own website.
- Developed front-end using Javascript, ReactJS, Redux, Redux-Saga and Material-UI. Back-end was developed using Java Spring-Boot. Used MySQL to store website and user data.

### News articles classifier, DA-IICT

Apr. 2017

- Made Naive Bayes classifier to categorize news articles using Python, NLTK library and various NLP techniques achieving 0.78 F1 Score.