### TATHYA PATEL

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### **EDUCATION**

Expected in 05/2023 Master of Science: Computer Science (GPA: 3.6/4.0)

The University of Texas at Dallas - Richardson, TX

07/2021 Bachelor of Science: Computer Engineering (GPA:9.33/10.0)

Gujarat Technological University - Ahmedabad, Gujarat, India

# TECHNICAL SKILLS

- Languages: Python, Java, C++, SQL, HTML, CSS, JavaScript, Bootstrap
- Frameworks: Flask, Spring Boot, NodeJS, React
- Database Technology: MySQL, MongoDB
- Others: MVC Architecture, Git, Design patterns, Object-Oriented Design, Pandas, NumPy, Apache Nutch

# PROFESSIONAL EXPERIENCE \_

## **Software Developer Trainee** (June 2020 – May 2021)

**Softvan Pvt** – Ahmedabad, Gujarat

- Focused on Python programming and flask, coding problems, and Alexa training Managed 80% of backend portion of the company's initiatives in a team of 5.
- Coordinated with supervisors for requirement gathering, workflow, and selection of approach and implementation.

### **PROJECTS**

# **BitSwap** - Bitcoin Transaction System (June 2022)

Technologies: Heroku, NodeJs, ExpressJs, MySQL, REST APIs, Handlebars, Bootstrap

- Provided a cloud platform in a team of 5 where clients and traders have capabilities to trade the bitcoins.
- Implemented MVC architecture using REST APIs as well as designed MySQL database.
- Implemented payable commission strategy for the transaction of bitcoins to separate out the clients based on different tiers with an accuracy of 94% using microservices.
- Secured the platform 87% by levering passportJS Strategy and JWT tokens for authentication and authorization.

#### Search Engine on Cars (March 2022)

Technologies: HTML, JavaScript, Python, Apache Nutch, Apache Solr, Flask, Scikit-learn

- A search engine made for cars that give an output of websites related to cars based on 100,000 crawled web pages.
- Clustering was used along with page ranking and HITS score to enhance the search result by 60%.
- Performed query expansion like association and metric cluster to expand query and get optimized output.
- Showed every searched website on UI with help of Flask framework.

# Market Place – Online Auction System (November 2021 - December 2021)

Technologies: Java, Spring Boot, MySQL, Bootstrap, HTML, CSS, Thymeleaf

- Designed and developed a web-based platform for auctioning items.
- Created backend using MVC architecture and integrated with APIs in Java and used MySQL as database.
- Implemented seller's tier for selling items for auction with base price and time limit.
- Provided an environment for buyers to bid for the items. One with the highest bid will win the auction.

## Candidate Evaluation Using Voice Intelligence – Verbal Interview System (August 2020- January 2021)

Technologies: Python, HTML, JavaScript, Amazon Web Services, Flask, Artificial Intelligence Training

- Built a full-stack web application that works along with Alexa to take interviews of candidates and then evaluate candidates based on their responses to Alexa.
- Implemented REST APSs and used MySQL database for data storage and authentication.
- Built a custom skill in Alexa Developer Console to process responses provided by the candidate.