

# PRAYAG BIMALKUMAR PATEL

## Software Development Engineer

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### Education

- |   |                    |          |
|---|--------------------|----------|
| - <b>Arizona State University</b> (ASU), Arizona, USA                         | <b>Expected</b> :  | May 2023 |
| Master of Science in Computer Software Engineering                            | <b>GPA</b> :       | 4.0      |
| <b>Relevant Courses</b>   |                    |          |
| Advance Data Structure and Algorithm      Foundations of Software Engineering |                    |          |
| - <b>Gujarat Technological University</b> -, Gujarat, India                   | <b>Graduated</b> : | Aug 2020 |
| Bachelor of Engineering in Computer Engineering                               | <b>CGPA</b> :      | 9.0      |

### Skills

- |                               |   |  |
|-------------------------------|---|--|
| <b>Languages</b>              | : | Java, HTML, CSS, JavaScript, C, C++, Python, C#, Prolog, R, PHP  |
| <b>Data Base</b>              | : | MySQL, SQL Server, MongoDB, PostgreSQL, Oracle Database, Firebase  |
| <b>Tools &amp; Frameworks</b> | : | NodeJS, React, REST, Taiga, Git, Eclipse, Android Studio, Docker, .NET, MVC, TABLEAU, TensorFlow, Jira, PyTorch, Jupyter Nb, Keil µ Vision, POWER BI, Adobe Creative Cloud |
| <b>Certifications</b>         | : | Google Cloud Platform Fundamentals: Core Infrastructure, Implement High Fidelity Designs with Material-UI and ReactJS  |

### Experience

#### **Web Development Intern at Madhya Gujarat Vij Company Public Limited, Gujarat** **Aug 2019 – May 2020**

- Developed a web application named TND-System currently in use by M.G.V.C. L
- Collaborated within an agile team structure to design, build and test front-end and back-end for web-application
- Improved system surpasses its DOS predecessor, increased work efficiency by 77%
- Implemented MVC architecture using REST APIs as well as constructed MySQL database, used git as code versioning tool
- Developed user interface using HTML5, CSS3 and modern JavaScript framework, improved user satisfaction by 31%
- Executed tire-based sign up and authentication with Firebase and React.js for 150+ employees
- Created scheduled event jobs and stored procedures to generate charts and reports from monitoring data from 239 substations of 2,059 feeders (transmission lines) located at different geolocations
- Scrutinized integration of cross-browser compatible applications and insured quality testing
- Learned Test-Driven Development approach, writing maintainable code, interact with clients and handle feedback on work

### Academic Projects

#### **Parker** **Jan 2022 – May 2022**

- Designed automated Smart Parking Assistant (S.A.P) app completely handles functioning of parking lot
- Finds and guide user to closest parking spot, automates computation of cost, includes an online payment channel
- Enhanced resilience of Cyber Physical System over network using multi-agent framework for distributed middleware

#### **SoccerT** **Aug 2021 – Nov 2021**

- Built a COTS software by practicing Agile SCRUM for managing Soccer Tournaments with 350-700 teams
- Performed unit testing of role-based login, scheduler for tournaments incorporating age and gender-based divisions
- Designed an interactive UI, Produced, and consumed Restful API for development of website

#### **Performed Tweeter Emotion Analysis Using Supervised Learning Algorithms** **Jan 2021 – Mar 2021**

- Implemented nine separate algorithms to classify tweets and compared performance on cleaned data
- Cleaning data was an important step, accomplished using regular expressions and NLTK library in Python
- Deduced convolutional neural network produces most optimal results at 89% accuracy

#### **CodeSter: The Portal for Coders** **Feb 2019 – April 2019**

- Created platform in React.js for coding enthusiasts to develop skills, discuss and blog
- Provided customized recommendations by scraping through renowned coding platforms

#### **Med Store** **Sep 2018 – Dec 2018**

- Managed and synthesized data of 100+ patient's medical records, simulating working of a medical store and its inventory
- Generated immutable batch records using blockchain for EHR's, drug's origin and ingredients
- Stored medical records confidentially, update patient data across multiple facilities and locations in real time

### Leadership and Volunteer Work

#### **Organizer and Core Committee Member of Tech Fest – "Aahvan", Gujarat** **Feb 2018 & Feb 2019**

- Lead Graphics Designing and Web Development team in both years. Launched website and administered data entry and management for a footfall of 25000 students per year. Volunteered in establishing sponsorships and partnerships

#### **Volunteered at Helping Hand Foundation, India** **Jun 2020 – Oct 2020**

- Volunteered in distribution of more than 1,00,000 masks, 52,000 plus PPE kits and over 2,00,000 units of food items during ongoing COVID-19 pandemic #TogetherWeCan