

# Dhruv Patel

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## EDUCATION

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**California State Polytechnic University Pomona**

**Aug 2022 - Dec 2024**

*Masters of Science (MS) — Computer Science*

CGPA: 3.62/4.0

**Gujarat Technological University, Ahmedabad**

**Aug 2019 - May 2022**

*Bachelor of Engineering (BE) — Computer Engineering*

CGPA: 7.78/10.0

## SKILLS

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**Languages & Tools:** Apex, Java, Python, HTML 5, CSS 3, JavaScript, GitHub, Postman, Apache Tomcat, Flow, Workflow Rules, Process Builder.

**Frameworks & Libraries:** Lightning Web Components, Visualforce, Hibernate, Flask, ReactJS, pandas, numpy.

**Cloud Platforms:** Salesforce Administrator/Developer I, AWS (RDS, S3, VPC, EC2, lambda), Azure, GCP.

**Database management:** SOQL, SOSL, SQL, MySQL, PostgreSQL, PL/SQL.

## EXPERIENCE

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### BISAG

India

*Software Engineer Intern*

*Jan 2022 – May 2022, Internship*

- Built an application using Python, to Track the status of the Network using wireshark API's. It is even used to capture and save network information in log file.
- Optimized data structures and architecture design and improved project quality by 25%.
- Debugged 35% of software issues by collaborating with cross-functional teams during the SDLC.
- Delivered bi-weekly sprints 2 days ahead of schedule in an Agile (Scrum) environment.
- Formulated detailed wireframes, DFD's, and process models for clear system design.
- Participated in code review feedback activity to check on the readability, accuracy, and efficiency.

## PROJECTS

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### Fake News Analysis using Machine Learning Algorithms | [GitHub](#)

- Delivered 94.47% of accuracy with models like KNN, Decision Tree, Random Forest, Gradient Boosting and Passive Aggression on a balanced dataset. Preprocessed and trained on a dataset with equal distribution of a Real (50.1%) and Fake (49.9%) news article, utilized pandas, NumPy & scikit learn libraries for data visualization, preparation, and training.

### Performance Evaluation of 5G replay on 5G network

- Executed replay attacks using fuzzers to identify and reduce potential security vulnerabilities and threats for 5G Core. Analyzed pcap files using Wireshark on a live 5G core network & Performed Testing using multiple fuzzers on Open5GS and Free5GC to ensure core system against unexpected inputs.

### Tarot: weaving stories | [GitHub](#)

- Developed a RESTful API with Flask for interactive tarot-based storytelling and enhancing 70% user engagement. Generated 90% similarity compared to original research paper results using a JSON Schema. Introduced features to draw 1 or 3 tarot cards for personalized and humorous Text, improving user experience.

### JavaFeast: order management application | [GitHub](#)

- Designed a dining management application using Java, Hibernate ORM, and Apache Tomcat with Postgres DB in an MVC model that features 50% order handling and receipt generation, 30% of editing menu and applying discount. Efficiently got 95% accuracy in CRUD operations using Java Persistence API (JPA) and added 20% of history price update functionality with a price change of the product & Implemented unit tests covering 30% of the code with JUnit.