# Dhruv Patel

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## SKILLS

**Languages & Tools:** Java, Python, HTML5, CSS3, JavaScript, Apex, GitHub, Postman, Apache Tomcat, Flow, Workflow Rules, Process Builder, Triggers, Sandbox Development, Schema Builder, Data Loader.

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

**Cloud Platforms:** AWS (RDS, S3, VPC, EC2), Azure, Google Cloud, Salesforce (Service, Sales Cloud).

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

## EXPERIENCE

**Kretoss Technology**                                                                                India
*Software Developer*                                          *May 2021 – May 2022, Full-time*

- Worked on building and maintaining web application using Python and MySQL.
- Connected with client's to understand, implement, and document business requirement.
- Optimized database and system design and reduce database redundancy.
- Collaborated with cross-functional teams to resolve 35% of software issues and consistently delivered bi-weekly sprints in an agile environment.
- Created Wireframes, DFDs, Process models and ER-diagram for system, utilizing tool like draw.io & Lucidcharts.
- Participated in code reviews to ensure system clarity, readability, and efficiency.

## PROJECTS

**Security Evaluation of 5Greplay Fuzzer on 5G network** | MS Research | *Report*

- Executed replay attacks using **Fuzzing** techniques to identify and reduce potential security vulnerability and threats to 5G network.
- Analyzed pcap files using **Wireshark** on a live 5G core network & Performed positive and negative testing using multiple fuzzers on SuperMicro and Dell 5G Core framework to ensure system against inputs.
- Utilized 5Greplay **Docker** container & Bash commands in **Linux** environment to perform the experiments.

**Fake News Detection using Machine Learning Algorithms** | *GitHub* | *Report*

- Delivered **94.47%** of highest accuracy with models like **KNN, Decision Tree, Random Forest, Gradient Boosting** & **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, used **pandas, numpy** & **scikit-learn** libraries for data visualization, preparation, and training.

**Tarot: weaving stories** | *GitHub* | *Report*

- Developed a REST 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* | *Report*

- Designed a dining management application using Java, **Hibernate ORM**, and Apache Tomcat with **Postgres** DB in an **MVC model** that enables 50% faster order processing and receipt generation, 30% of more efficient menu editing & applying discounts.
- **CRUD** operations were executed using **Java Persistence API (JPA)** and build functionality for historical price updates with a price change of the product & Implemented unit tests covering 30% of the code with **JUnit**. Maintained session & cookies of the user.

## EDUCATION

**California State Polytechnic University Pomona**                                **Aug 2022 - Dec 2024**
*Masters of Science (MS) — Computer Science*
CGPA: 3.64/4.0