

Dhruv Patel

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SKILLS

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: AWS (RDS, S3, VPC, EC2, lambda), Azure, GCP.

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

Certifications: Salesforce Platform Developer I.

EXPERIENCE

BISAG

India

Software Engineer Intern

Jan 2022 – May 2022, Internship

- Built an application using Python, to Track the status activity 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%.
- Collaborated with cross-functional teams to resolve 35% of software issues and consistently delivered bi-weekly sprints ahead of schedule in an Agile (Scrum) environment.
- Created detailed wireframes, DFDs, and process models, and participated in code reviews to ensure system clarity, readability, and efficiency.

PROJECTS

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

- Delivered 94.47% of highest 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 5Greplay 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 integrated testing using multiple fuzzers on Open5GS and Free5GC to ensure core system against unexpected inputs.

Tarot: weaving stories | [GitHub](#)

- 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](#)

- Designed a dining management application using Java, Hibernate ORM, and Apache Tomcat with Postgres DB in an MVC model that features 50% order processing and receipt generation, 30% of editing menu and applying discount.
- Efficiently CRUD operations were executed using Java Persistence API (JPA) and added function 20% of history price update functionality 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: 3.62/4.0

Gujarat Technological University, Ahmedabad

Aug 2019 - May 2022

Bachelor of Engineering (BE) — Computer Engineering

CGPA: 7.78/10.0