

Dhruv Patel

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SUMMARY

A Computer Science graduate passionate about system architecture, coding, data structures, and security. Continuously expanding knowledge in AI, Machine Learning and LLM's. Funfact: Ranked in the top 1.1% of Call Of Duty: Mobile players.

EDUCATION

California State Polytechnic University Pomona

Aug 2022 - Dec 2024

Masters of Science (MS) — Computer Science

CGPA: 3.64/4.0

SKILLS

Languages & Tools: Java, Python, HTML5, CSS3, JavaScript, Apex, C#, GitHub, Postman, Apache Tomcat, Triggers.

Frameworks & Libraries: Hibernate, Flask, JUnit, React.js, vite.js.

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

Jan 2020 – May 2022, Full-time

- Worked on building and maintaining scalable web application using Python and **MySQL** Database.
- 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 with best practices.
- Developed REST & SOAP API's with **Flask** for interactive pages and enhancing 70% user engagement.
- Introduced features with the microservice architecture ensuring uptime and user experience.

GRADUATE 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 private 5G network system.
- Monitored pcap files using **Wireshark** on a live 5G core network & Performed positive and negative testing.
- Utilized 5Greplay **Docker** container & Bash commands in **Linux** environment to perform the experiments.
- Publishing the research work at **IEEE** conference in Summer 2025.

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.

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.