

# Dhruv Patel

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## SUMMARY

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A Computer Science graduate passionate about system architecture, coding, data structures, and security. Continuously expanding knowledge in AI, Machine Learning and LLM's. Published researcher in 5G security with proficiency in API development. Funfact: Ranked among the top 1.1% of Call Of Duty: Mobile players.

## EDUCATION

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**California State Polytechnic University Pomona**

**Aug 2022 - Dec 2024**

*Masters of Science (MS) — Computer Science*

CGPA: 3.64/4.0

## SKILLS

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**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

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**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

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**Security Evaluation of 5Greplay Fuzzer on 5G network** | MS Research | [Report](#) | **Publisher - IEEE**

- 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.

**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.