

Dhruv Patel

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Education

Master of Science | Computer Science

California State Polytechnic University, Pomona, CA | GPA - 3.6

Aug 2022 - Dec 2024(Expected)

- Relevant coursework: Advanced software engineering, Intro to AWS Core, AI in digital entertainment, Advanced algorithm and design analysis, Advanced data mining, Human Computer Interaction (HCI).

Bachelor of Engineering | Computer Engineering

Gujarat Technological University, India | GPA - 3.3

Sep 2019 - May 2022

- Relevant coursework: Advanced data structures, Information security, Cloud computing, Machine learning.

Projects

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

- Achieved 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 & sci-kit learn libraries for data visualization, preparation, and training.

Performance Evaluation of 5G replay on 5G network | MS Project

- Executed replay attacks using fuzzers to improve software verification for 5G security research.
- Analyzed pcap files using Wireshark on a live 5G network core protocol.
- Performed rigorous Test using multiple fuzzers on Open5GS and Free5GC to check system against unexpected inputs.

Tarot: weaving stories | Python, Flask | [GitHub](#)

- Developed a RESTful API with Flask for interactive tarot-based storytelling and enhancing 70% user engagement.
- Generated 80% similarity compared to original research paper results using a JSON Schema.
- Introduced features to draw 1 or 3 tarot cards for personalized and humorous readings, improving user experience.

JavaFeast: order management application | Java, Hibernate | [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.

Experience

Software Engineer Intern | BISAG, India

Jan 2022 - May 2022

- Optimized data architecture and improved project quality by 15%.
- Debugged 45% of software issues by collaborating with cross-functional teams during the SDLC.
- Delivered bi-weekly sprints 2 days ahead of schedule and increasing 20% efficiency in an Agile (Scrum) environment.

Software Developer Intern | Kretoss Technology, India

Jun 2021 - Dec 2021

- Developed a scalable application using java, Spring boot framework and AWS.
- Created detailed wireframes, DFD's, and process models for clear system design system design.
- Deployed application on AWS EC2 and integrated RDS instance and Postgres for seamless database hosting.

Skills

- **Languages:** Java, Python, HTML 5, CSS 3, JavaScript, Git Hub (Version Control).
- **Frameworks:** Spring Boot, Hibernate, Flask, React.
- **Cloud Platforms:** AWS (RDS, S3, VPC, EC2, lambda), Salesforce Administrator, Azure, GCP.
- **Database management:** SQL, MySQL, PostgreSQL, PL/SQL.
- **Tools:** Visual Studio Code, Postman, IntelliJ IDEA, Apache Tomcat, JUNIT [Unit Testing].