# Dhruti Patel

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## TECHNICAL SKILLS

**Languages**: Javascript , Python , Typescript , C++ , Java , HTML , CSS , JSON
**Frameworks**: Node.js , Express.js , React.js , Next.js , TailwindCSS , Django , Firebase , PyTest , Kafka
**Dev Tools**: Git , GitHub , AWS (S3, EC2, Lambda) , Azure , Postman , Docker , Jenkins , Ansible , Jira , Linux
**Databases**: NoSQL (MongoDB, DynamoDB, Cloud Firestore) , SQL (MySQL, PostgreSQL)
**Skills**: Front-end , Back-end , Agile , Unit testing , CI/CD , Scrum , DevOps , SDLC

## EXPERIENCE

**Graduate Teaching Associate**                                               Fullerton, CA
*California State University, Fullerton*                                   *Jan 2023 - Present*
- Mentored over 50 students in Foundation of Software Engineering course on essential topics for software development.
- Employed tools like Jira, Trello to simulate practical project management situations, emphasizing Agile methods.
- Taught Intro to Programming labs - C++, leveraging Linux, GitHub for enhanced coding skills, collaborative learning.

**Data Science Intern**                                                              India
*Kintu Designs Pvt. Ltd.*                                                 *Dec 2021 - Apr 2022*
- Coordinated with clients in an Agile setup, engaged in pair programming, daily scrum for efficient project delivery.
- Delivered AI-Driven chatbot for healthcare platform on 2 conversation flows, 30 FAQs resolving 80% queries using RASA.
- Conducted comprehensive data cleaning and analysis of sales data using Python, Pandas, encompassing 6 key attributes.
- Built and deployed user-friendly dashboards and visualizations using Tableau to enhance data comprehension for clients.

**Software Developer Intern**                                                      Austin, TX
*Feature IT LLC*                                                          *Jun 2021 - Nov 2021*
- Crafted efficient and scalable RESTful APIs, leveraging power of Django, Mongoose and Postman for API testing.
- Supported establishment of an end-to-end CI/CD pipeline, performed code review, curated documentation, and unit/integration testing through PyTest Framework.
- Engaged in all phases of SDLC, from idea generation to testing to ensure delivery of high-quality software solutions.

**Software Developer Intern**                                                        India
*ZipBooks Software Solutions Pvt. Ltd.*                                    *Apr 2020 - Jul 2020*
- Collaborated in team of 6 developers to create FaceLog, cutting-edge system for face recognition and customer analysis.
- Gained proficiency in OpenCV, Python, state-of-the-art ML models to enhance image and video processing capabilities.
- Contributed to development of admin portal aimed at enhancing customer analytics, utilizing Node.js, MongoDB, WebSocket, D3.js, HTML and CSS.

## PROJECTS

**BrandGuru - AI Assistant For Marketing**
*Python, FastAPI, OpenAI, AWS CDK, AWS Lambda, API Gateway, Docker, Typescript, Next.js, React, TailwindCSS, Firebase, Vercel*
- Designed and developed full stack AI-driven marketing content generation platform with 100% cloud-native architecture.
- Leveraged AWS Lambda for serverless backend, adopting pay-as-you-go model resulted in approximately $120 reduction in infrastructure costs per year, and utilized Vercel for continuous integration and deployment.

**Image Processing Application**
*Java, JavaFX, JUnit, Command Pattern, Object Oriented Programming, Test Driven Development (TDD)*
- Developed JavaFX image processing application, integrating Java's libraries, OOP principles, implemented MVC, Command Patterns for operational efficiency, and conducted rigorous JUnit testing, achieving an impressive test coverage of 94% .

**Jenkins CI/CD Portfolio Pipeline**
*Github Webhooks, Jenkins, Ansible, Docker, AWS EC2, AWS Route53*
- Automated personal portfolio website deployment, transitioning from manual deployment, reducing deployment time from 5 mins to automatic deployment in just 1 min.

**Financial Market Data Analysis**
*Python, Kafka, Spark, Plotly, CronTab, Azure Blob Storage, Alpha Vantage API, ETL*
- Enabled real-time streaming of financial data via Kafka ensuring continuous data capture into Spark for analysis, utilized cron job to execute script every 1 min, enhancing data availability and enabling real-time data ingestion and analysis.
- Utilized Azure Data Lake to store JSON-formatted processed data, enhancing data retrieval for historical data analysis.

## EDUCATION

**California State University, Fullerton**                                        Fullerton, CA
*Master of Science in Computer Science , GPA: 3.73*                                *May 2024*

**Charotar University of Science and Technology**                                     India
*Bachelor of Technology in Computer Science & Engineering , GPA: 3.94*             *May 2022*