JEMIL DHARIA

SOFTWARE DEVELOPER

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EDUCATION

Arizona State University — **Tempe, Arizona**
Master of Science (MS) in Computer Science — **GPA: 3.89/4.0** — **August 2024 – May 2026**
Relevant Coursework: *Foundations of Algorithms, Cloud Computing, Advanced Graphics, Statistical Machine Learning, Cryptography*

Pandit Deendayal Energy University (PDEU) — **Gandhinagar, India**
Bachelor of Technology (B.Tech) in Computer Engineering — **CGPA: 9.91/10.00** — **August 2020 – May 2024**

SKILLS AND EXPERTISE

Languages: Python, C++, C, Java, JavaScript, HTML, CSS, Matlab
Frameworks/Web: NodeJS, ReactJS, Express.js, NextJS, Flask, RESTful APIs, Android Studio
Cloud/DevOps/DBs: AWS, Azure, CI/CD pipelines, Docker, Git, GitHub, MongoDB Atlas, PostgreSQL, MySQL
Data/ML/Tools: Databricks, Spark, Pandas, NumPy, Matplotlib, Google Colab, Figma, Jira, Agile
Professional: Leadership, Teamwork, Communication, Problem-Solving, Adaptability, Analytical Thinking, Data Analysis & Storytelling, Time Management, Process Improvement

WORK EXPERIENCE

Teaching Aide - Physics Lab | Arizona State University — **Tempe, Arizona** — **August 2024 – Present**
- Oversaw physics **laboratory** and **operations**, including equipment setup, safety compliance, and troubleshooting technical issues.
- Provide individualized **assistance** to a class of 72 students, enhancing student lab performance scores by 20%.
- Analyzed **500**+ lab reports per semester, identifying patterns using data-driven insights and enhancing overall lab **performance** by 20%.

Website Development Intern | Aasma Technology Solutions — **Ahmedabad, India** — **January 2024 – June 2024**
- Designed and devised the company's website using **React.js** for the frontend and **Node.js** for the backend containing 10+ pages, while managing the database through **Contentful**, guaranteeing reduced page load times by 35%.
- Integrated **Contentful API** directly into frontend, reducing API latency by **30**%, and explored scalable deployment via **Azure** pipelines.
- Adhered to the **Agile** Software Development Life Cycle with weekly sprints, achieving a 100% sprint completion rate.

Software Development Intern | Capgemini Technologies — **Gandhinagar, India** — **June 2023 – July 2023**
- Constructed a Python-Flask library to streamline 20+ **ABHA APIs** for Indian **healthcare** records, reducing integration time by 25%.
- Built a wrapper class in the form of a reusable module to seamlessly link the **M1** (Registration) and **M2** (Verification) ABHA APIs, achieving a 25% improvement in API response efficiency and securing compliance with healthcare data protocols.
- Led a **5-member** team to unify **Node.js** and **Python** backends, improving system performance and compliance with data protocols.

PROJECTS

GenAI-LLM Email Generator using LangChain, Groq (Link) — **(ASU, AZ)** — **March 2025 – April 2025**
- Conceived and deployed a **generative AI** system to automate personalized email creation by **scraping** job descriptions, optimizing extraction to exclude headers and non-relevant sections. Leveraged LangChain, **Groq LLM**, and **ChromaDB** for RAG-based semantic retrieval, achieving 80% reduction in drafting time across 50+ test cases via dynamic prompt tuning and portfolio integration.

Cloud-Based ETL Pipeline using AWS and Apache Airflow — **(ASU, AZ)** — **March 2025 – April 2025**
- Built and deployed a cloud-based **ETL pipeline** using Apache **Airflow** (Dockerized on AWS **EC2**) to extract weather data every 10 minutes for 10 cities, storing ~4,300 weekly records in **Amazon S3** and orchestrating 200+ DAG runs during development.
- Transformed data using AWS Glue and loaded it into Amazon Redshift for SQL-based forecasting and analysis; improved KPI tracking by 40% and achieved >99% DAG run success during 200+ orchestrations.

Classification and Segmentation of PV Satellite Images — **(PDEU, India)** — **February 2024 – May 2024**
- Devised a deep learning pipeline on PV dataset using **U-Net** for pixel-level segmentation and **ResNet18** for binary classification, achieving a **Dice score** of **0.82** and **92% accuracy** across satellite imagery datasets.
- Implemented scaled masking and **thresholding** techniques to distinguish solar panel and non-solar panel images, enabling precise area estimation and energy capacity analysis, and proposed advance architectures, including SeResNet and YOLOv8, to improve segmentation fidelity and classification robustness for large-scale **renewable energy** applications.

Non-Contact Inspection of Electrically Discharged Materials (Link) — **(PDEU, India)** — **September 2023 – November 2023**
- Proposed a non-contact inspection method to predict surface roughness of **electrically discharged material** (EDM) surfaces achieving a 30% improvement in prediction reliability with K-nearest neighbors regression (MSE: 0.00157, R^2: 0.99) using an **augmented** dataset.