

Jinay Shah

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SUMMARY

Versatile and results-driven Data Scientist and Software Developer with proven **machine learning, cloud computing, system design**, and full-stack development expertise. Skilled in building scalable, high-performance solutions using **Python, SQL, Django, React, AWS, and Docker**. Proficient in **Agile methodologies, CI/CD pipelines**, and modern software architectures. Passionate about optimizing complex systems, improving operational efficiency, and leveraging cloud technologies to drive business value. Experienced in tackling technical challenges and providing innovative, high-quality software solutions.

EXPERIENCE

Decision Theater Network (ASU)

Tempe, USA

Software Developer

June 2024 - Present

- Led a cross-functional team in building **CuRVE**, an interactive tool for analyzing Colorado River shortages, serving 2,000+ monthly users using **Flask, PostgreSQL, and SQLAlchemy**.
- Enhanced **system performance** by reducing **query execution time by 50%** through SQL profiling, optimization, and indexing, improving data retrieval and system responsiveness
- Designed and implemented **scalable RESTful APIs** with **rate-limiting, caching, and authentication** mechanisms, improving **API response rates by 60%** and ensuring high system reliability.
- Conducted **performance testing** using **Locust**, preparing the system for a **40%** traffic surge.
- Automated **CI/CD pipelines** with **Jenkins** and **GitHub Actions**, speeding up deployment cycles by **30%**.
- Developed dynamic map and chart features with **React.js**, leveraging **hooks** and **API** calls for user interactivity.
- Transformed raw datasets into actionable insights using **Pandas, NumPy, and SQL**, performing data cleaning and feature engineering to drive accurate analysis and data-driven decisions.

KiVee Softech

Gujarat, India

Sr. Software Developer

June 2022 - July 2023

- Developed a **voice recognition application** for secure banking transactions using **Python** and **AI libraries**, reducing manual effort by **40%**.
- Optimized distributed **SQL queries** for high-traffic components, decreasing database costs by **20%**.
- Collaborated with cross-functional teams to create scalable APIs for cloud-based APIs for cross-platform interoperability, accelerating development time by **25%** and expanding the product's reach.
- Mentored junior developers, fostering a team culture of collaboration and continuous learning.
- Enhanced **distributed system architecture** for various domains, including **healthcare** and **hospitality**, improving backend efficiency and reducing load times by 30%.

Kintu Designs Pvt.

Gujarat, India

Software Developer

February 2021 - January 2022

- Initiated and developed a **machine learning-based, data-driven food recommendation chatbot**, benefiting over 100,000 users and improving health outcomes for 10,000+ individuals.
- Designed user-friendly interfaces with **Django** and **JavaScript**, achieving a 95% user satisfaction rate.
- Implemented **AI-powered Chatbots** for customer support, reducing query resolution time by 60%.
- Enhanced system **scalability** and **performance** by applying algorithms and data structures.

PROJECTS

SecurePix: Image Encryption and Decryption Tool

Django, Python

- Developed **SecurePix**, a tool for encrypting image data with **AES** encryption, ensuring data confidentiality.
- Integrated robust **authentication mechanisms** to securely upload and download files.

Image Recognition as a Service

AWS, Python, Node.js, React.js

- Engineered a **scalable face recognition** system using **AWS EC2, Google Cloud Storage (GCS), SQS, and S3**, optimizing data storage and processing for improved performance and cost-efficiency.
- Combined **TensorFlow** and **OpenCV** for real-time face recognition, improving accuracy and performance.
- Created a real-time monitoring dashboard with **React.js**, enhancing the user experience and data visualization.

Multiplayer Game Development

.NET, C#, Unity, Photon PUN, Azure

- Designed and developed a **real-time multiplayer game** using **Photon PUN** for synchronization, employed the backend on **Azure**, ensuring smooth gameplay and scalability.

SKILLS

Languages: Python, JavaScript, Java, TypeScript, R, C/C++, C#, Rust, Go, SQL (MySQL, PostgreSQL), MongoDB

AI & ML: TensorFlow, PyTorch, Keras, HuggingFace, Scikit-learn, OpenCV, NLTK, SpaCy, NumPy, Pandas, Matplotlib, SciPy.

Software: Django, Flask, React.js, Node.js, Spring Boot, WebSockets, Redis, Firebase, Tableau, Postman, SQLAlchemy, Highcharts, Leaflet, React-Leaflet.

Cloud & DevOps: AWS (S3, Lambda, EC2), GCP, Kubernetes, Docker, Pinecone, Jenkins, GitHub Actions, TravisCI

Certificates: AWS Academy Graduate - AWS Academy Data Engineering [96009]

[Credly](#)

EDUCATION

Arizona State University

Tempe, AZ

Master of Science in Information Technology | GPA: **4.0**

August 2023 – May 2025 (Expected)

Uka Tarsadia University

Gujarat, India

Bachelor of Engineering in Computer Engineering | GPA: **3.63**

July 2018 - May 2021