

# VISHRUT JHA

Phoenix, AZ

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## EXPERIENCE

### Prickly Pear Health Inc.

July 2024 – Present

Founding Engineer

Phoenix, AZ

- Architected iOS app for perimenopausal women using MVVM+Coordinator in SwiftUI, implementing RAG with GPT-4.1 model, and on-device LLM using MLX, achieving 98% crash-free rate and processing 10,000+ daily journals with HealthKit, Oura Ring and Fitbit integration.
- Engineered voice processing pipeline (AVFoundation, Speech) with <100ms latency and offline-first SwiftData architecture, while scaling backend with Bun/Hono to handle 500+ concurrent users at 99.9% uptime.
- Deployed HIPAA-compliant AWS infrastructure (EC2, ECS, RDS, S3) using Terraform, and implemented end-to-end encryption with secure authentication via Supabase Auth and Sign In with Apple.

### Dhan AI Pvt. Ltd.

June 2023 – May 2024

Software Development Engineer - I

Tempe, AZ (Remote)

- Led OAuth migration from SAP Gigya to Firebase Auth in the iOS app, implementing custom property wrappers that reduced authentication time by 40% and improving security while managing 50,000+ user transition.
- Designed real-time sync architecture using MVVM and Repository patterns, achieving 35% better performance through Celery, RabbitMQ, and Redis caching.
- Developed SwiftUI admin dashboard with Charts and analytics, integrating JWT-based debugging that reduced resolution time by 60% while maintaining SSO/2FA.

### Compliance Group Inc.

June 2019 – July 2021

Full-stack Developer

Hyderabad, India

- Played a key role in the backend development of *FDAnalytics* and *iQuality* using Python, Django REST Framework and later, GraphQL, contributing to a 20% uplift in data processing efficiency.
- Collaborated with a team of 6 developers to develop a data categorization module, significantly enhancing data retrieval speed and accuracy using Azure Search.
- Contributed to the implementation testing and deployment pipelines using PyTest, Jest, and GitHub Actions for CI/CD processes, which cut down deployment errors by 50% and improved the quality of the deliverables.

### AuthBase Inc.

September 2018 – May 2019

Software Engineer

Hyderabad, India

- Developed *LiveShield*, leveraging ElasticSearch, Logstash, and Kibana (ELK) for dynamic scanning of over 10,000 DLLs, enhancing real-time security analytics, and alerts using socket.io.
- Integrated Nessus and NMap-based packet sniffers for in-depth vulnerability scans, cross-referencing NVD and CVE data for robust threat management.
- Achieved a 40% improvement in security effectiveness, aligning with NVD advisories and CVSS risk assessments.

## EDUCATION

### Arizona State University, Ira A. Fulton Schools of Engineering

August 2021 – May 2023

Master of Science in Computer Science, GPA: 3.89

Tempe, AZ

- Relevant Coursework: Data Processing at Scale, Software Security, Applied Cryptography, and Natural Language Processing.
- TA to FSE 100: Introduction to Engineering, build using MATLAB, Python, Lego, and Raspberry Pi. *Fall 21 - Spring 22*

### Panjab University, University Institute of Engineering and Technology (UIET)

August 2014 – May 2018

Bachelor of Engineering in Computer Science and Engineering

Chandigarh, India

- Relevant Coursework: Computation and Automata Theory, AI and Expert Systems, and Data Structures and Algorithms.

## SKILLS

**iOS:** SwiftUI, lldb, Swift Charts, AVFoundation, HealthKit, Swift Data, Swift Testing, MLX, CoreML

**Languages/Frameworks:** Swift, C, C++, TypeScript, Python, React, NextJS, Tailwind

**Backend & DevOps:** AWS (EC2, ECS, RDS, S3), Terraform, Docker, Git, CI/CD, HIPAA Compliance