Vishrut Jha

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EXPERIENCE

Prickly Pear Health Inc.

Founding Engineer

- Architected iOS app for perimenopausal women using MVVM+Coordinator in SwiftUI, implementing RAG with GPT-40 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, contributed to LlamaStack iOS framework, and implemented end-to-end encryption with Supabase auth.

Dhan Al Pvt. Ltd.

Software Development Engineer - I

- 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.

Full-stack Developer

- Played a key role in the backend development of FDAlytics 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.

Software Engineer

- Developed LiveShield, leveraging ElasticSearch, Logstash, and Kibana (ELK) for dynamic scanning of over 10,000 DLLs (Dynamic Link Libraries), enhancing real-time security analytics, and alerts using socket.io.
- Integrated Nessus and NMap-based packet sniffers for in-depth vulnerability scans, utilizing NVD (National Vulnerability) Database) and CVE (Common Vulnerabilities and Exposures) 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

Master of Science in Computer Science, GPA: 3.89/4.00

- 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)

Bachelor of Engineering in Computer Science and Engineering, GPA: 7.77/10.00

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

SKILLS

iOS: SwiftUI, Swift Charts, Alamofire, AVFoundation, Speech, HealthKit, Swift Data, Swift Testing, Swinject AI & ML: LlamaStack, MLX, CoreML, v0, OpenAI GPT-40, Claude 3.5 Sonnet, RAG, LangChain, Pinecone Languages/Frameworks: Swift, TypeScript, Python, React, NextJS, Tailwind CSS, shadcn/ui, SQL, HTML, CSS Backend & DevOps: AWS (EC2, ECS, RDS, S3), Bun, Hono, Supabase, Terraform, Docker, Git, Cl/CD, Xcode Cloud, **HIPAA** Compliance

September 2018 – May 2019

Hyderabad, India

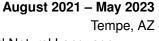
June 2023 - May 2024

July 2024 – Present

Phoenix, AZ

Tempe, AZ (Remote)

June 2019 – July 2021 Hyderabad, India



August 2014 - May 2018

Chandigarh, India