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-4o 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 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 *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.   **September 2018 – May 2019**
Software Engineer   Hyderabad, India
- 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*   **August 2021 – May 2023**
Master of Science in Computer Science, **GPA: 3.89/4.00**   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, **GPA: 7.77/10.00**   Chandigarh, India
- 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-4o, 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, CI/CD, Xcode Cloud, HIPAA Compliance