Amrinder Singh

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Education

University of Houston, Houston, TX

Bachelor of Science, Computer Science   **Expected May 2026**

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, Software Engineering, Software Design, Computer Networking

Project Experience

SiriMind iOS App, Independent Project   May 2024 – August 2024

- Developed voice-enabled iOS application integrating OpenAI GPT API for intelligent conversational interface
- Implemented Firebase authentication system supporting 100+ test users with secure data management
- Designed responsive UI using UIKit with speech-to-text and text-to-speech functionality

SpringAI Web Tour Builder, Independent Project   January 2024 – May 2024

- Built full-stack web platform auto-generating interactive onboarding tours using Anthropic Claude API
- Integrated Microsoft OAuth authentication and managed deployment for 50+ demonstration projects
- Created dynamic tour generation system with customizable templates and user analytics dashboard

User Management System, Software Engineering Course   August 2023 – December 2023

- Collaborated with 4-member team to develop enterprise-level user management system with role-based access
- Designed and implemented RESTful API endpoints (POST, PUT, DELETE) with secure authentication
- Built responsive dashboards for Superusers, Managers, and Users with real-time data synchronization

Task Manager iOS App, Mobile Application Development Course   August 2024 – December 2024

- Developed native iOS task management application with Core Data persistence and clean architecture
- Optimized data retrieval operations achieving 20% performance improvement in loading times
- Implemented CRUD operations with local notifications and data export functionality

Weather Forecast App, Independent Project   January 2024 – May 2024

- Built iOS weather application consuming real-time weather API with location-based services
- Integrated MapKit for GPS functionality achieving 95% uptime with accurate location tracking
- Designed intuitive interface with weather visualizations and 7-day forecast capabilities

Technical Skills

Programming Languages: Swift, Java, JavaScript, Python, C++
Mobile Development: iOS (UIKit, SwiftUI, Core Data, ARKit), Android
Web Technologies: React, Node.js, Express.js, HTML5, CSS3, Bootstrap, EJS
Databases & Cloud: PostgreSQL, MongoDB, Firebase, Microsoft Azure
Tools & APIs: Git/GitHub, Docker, REST APIs, OAuth 2.0, OpenAI GPT API, Anthropic Claude API

Additional Information

Certifications:
- The Complete Full-Stack Web Development Bootcamp (Dr. Angela Yu) - 100% Complete
- iOS & Swift - The Complete iOS App Development Bootcamp (Dr. Angela Yu) - 100% Complete
- Tensorflow 2: Deep Learning & Artificial Intelligence (Lazy Programmer Inc.) - 99% Complete

Languages: English (Native), Punjabi (Native), Hindi (Conversational)