# Amrinder Singh

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## Summary

Highly motivated and detail-oriented iOS Developer currently pursuing a Bachelor of Science in Computer Science at the University of Houston. Passionate about creating intuitive and innovative mobile applications and AI-powered web solutions using modern frameworks and technologies.

## Skills

**Languages:** Swift, Java, JavaScript, C++, Python

**iOS Development:** UIKit, Core Data, Core Animation, SiriKit, ARKit, Interface Builder, Auto Layout, Xcode

**Mobile Development:** Android, iOS

**Backend & Tools:** Node.js, Express.js, PostgreSQL, Git, GitHub, Django, RESTful APIs, **Docker, Microsoft Azure, OAuth 2.0, MongoDB, Mongoose**

**Frontend:** React, Bootstrap, EJS, JavaScript (ES6+)

**AI & Integration:** OpenAI GPT, Anthropic Claude API, Axios

**Additional:** Unreal Engine 4, Font Awesome, dotenv, nodemon

## Education

**University of Houston** *Expected 2025*
Bachelor of Science in Computer Science

## Courses

- **iOS & Swift - The Complete iOS App Development Bootcamp** *Dr. Angela Yu, Udemy*
- **The Complete Full-Stack Web Development Bootcamp** *Dr. Angela Yu, Udemy*

## Projects

- **Task Manager App (iOS)**: Developed an iOS app using Swift and Core Data for efficient task management with a user-friendly interface.

- **Weather Forecast App (iOS)**: Collaborated on an app that fetches real-time weather data via RESTful APIs and integrates MapKit for location-based updates.

- **SiriMind iOS App**: Built a native iOS application using UIKit and OpenAI's GPT-3.5 API to enable hands-free, voice-enabled interactions; integrated Firebase Authentication and Database.

- **Multi-Chain Restaurant App**: Created a Node.js and PostgreSQL-based application to manage multiple restaurant branches with real-time transaction tracking.

- **AR Scale App (iOS)**: Developed an augmented reality application using ARKit and the device camera to measure real-world distances. The app provides real-time measurement feedback with an intuitive UI.

- **User Management System – COSC 4353 Team Waterloo**: Built a full-stack web app with Microsoft Azure OAuth and role-based dashboards for Superusers, Managers, and Users. Integrated APIs for syncing forms between team databases with POST, PUT, DELETE, GET support. Included digital signatures, PDF exports, and application approval workflows.

*Tech Stack:* Docker, PostgreSQL, Azure OAuth, RESTful APIs, Microsoft Authentication, React, Node.js/Express

- **SpringAI – AI-Powered Web Tour Builder**: Developed a web platform that lets users generate guided onboarding tours for their websites using an AI-powered system. The platform uses a JS tracking snippet to collect webpage data, which is then analyzed using the Claude API to generate onboarding scripts and user flows with a visual editor. Includes Microsoft login, project management, and a clean Bootstrap 5 UI.
  *Tech Stack:* Node.js, Express.js, MongoDB, Mongoose, Azure AD, Anthropic Claude API, Axios, EJS, Bootstrap 5, JavaScript (ES6+), @azure/msal-node