Vignesh Bhargava

+91 98217 47977 | bhargava.vignesh@gmail.com | GitHub | LinkedIn | Portfolio

Education

Chitkara University Punjab, India
B.E. in Computer Science and Engineering Expected June 2028
CGPA: 8.81/10.0 | Coursework: Data Structures and Algorithms, Operating Systems

Profile

Computer Science and Engineering student with project experience in backend APIs, MongoDB geospatial queries, and native iOS development. Interested in building reliable software for media and audience measurement.

Technical Skills

Languages: Java, JavaScript, Swift, SQL, Python, C++
Backend and databases: Node.js, Express, REST APIs, MongoDB, MySQL
Web, mobile, and tools: React, SwiftUI, Swift Observation, Git, GitHub, Xcode
Cloud: Oracle Cloud Infrastructure, Microsoft Azure fundamentals

Projects

SwiftRide | Ride-Booking Application GitHub
React, Node.js, Express, MongoDB, JWT, Socket.IO

- The Express backend provides REST endpoints for ride booking, fare estimation, ride history, and cancellation, with input validation and JWT-protected routes.
- The backend uses MongoDB geospatial queries to find nearby drivers and calculates ride distance from pickup and drop-off coordinates for fare estimates.

PlantNotes | iOS Plant Care App GitHub | Demo
Swift, SwiftUI, Observation

- Built SwiftUI screens to add plants, search by name or room, and manage watering intervals, favorites, and care notes.
- Used a shared Observation store and bindings to sync list, detail, and summary views when users logged a watering or edited a plant.

Achievements

- Solved **202 LeetCode problems** and published Java solutions covering dynamic programming, sliding windows, and graphs.
- Advanced with Team Mysterious Four to Round 3 (Detailed Presentation Submission) of HPCL's HP Power Lab 2.0 (2026).

Certifications and Training

Oracle Cloud Infrastructure (2025) – Certified Developer Professional and Certified DevOps Professional
Digital Marketing Institute (2025) – Social Media Marketing in Practice Specialization
Microsoft Azure Fundamentals (2024) | IBM Web Development Fundamentals (2024)
NASSCOM Foundation thingQbator – Machine Learning and Image Processing (2026)