Garv Maheshwari

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Education

- **University of Washington** *Sept. 2023 - June 2027*
  Bachelor's of Science, Computer Science and Software Engineering

  Courses: Data Structures & Algorithms, Languages & Implementation, Database Systems, Software Design & Analysis, Software Engineering Principles, Management Principles, CSE Intro Series (Java),

Skills Summary

- **Languages/Frameworks**: C++, Java, Dart, SQL, C, Flutter
- **Tools**: Git, Azure SQL Database, NoSQL, REST APIs, Firebase Firestore & Auth., Linux, Docker

Experience

- **Washington Alliance for Better Schools (WABS)** Shoreline, WA
  Data Intern *July - Sept. 2025*
  - Built scalable volunteer sign-up platform connecting **2700+** students with **320+** industry mentors annually. Reduced schools without volunteers by **67%** within 3 weeks of deployment.
  - Developed JavaScript automation using Google AppsScript to streamline data post-processing workflows and integrated platform with WABS' website, saving **$500** annually. **(JavaScript)**
  - Independently developed using agile methods, produced comprehensive maintenance documentation and leveraged WABS' existing tools (Firespring, Google Sheets).

- **Expedia Group** Seattle, WA
  Career Discovery Program Mentee *July - Oct. 2025*
  - Mentored by a Technical Program Manager 1:1 to develop understanding of software development engineer roles, explore technical career paths, and build career readiness skills.

- **UW Society for Advanced Rocket Propulsion (SARP)** Seattle, WA
  Avionics Flight Computer Team Engineer *November 2023 - July 2025*
  - Programmed Flexible Memory Controller peripheral driver for STM-32 microcontroller in **C** to interface with external SDRAM 128MB.
  - Collaborated on power distribution board sub-team to create a power system that can seamlessly switch from ground power to battery backup.

- **UW Design, Build, Fly (DBF)** Seattle, WA
  Payloads Mission II Project Lead *Oct 2023 - May 2024*
  - Managed the Payloads Mission II subteam for the 2023-24 AIAA DBF competition, where our team placed **3rd** internationally.
  - Iteratively designed, prototyped, and manufactured fixtures to secure Mission II payload cargo.

- **Microsoft Shadowship Program** Seattle, WA
  Program Mentee *Apr - May 2024*
  - Shadowed a Senior Software Engineer 1:1, receiving guidance on entering the workplace with knowledge of software development process and emerging industry trends.

Projects

- **Text Autocomplete Project**:
  - Built a text autocomplete feature by implementing a Binary Search Tree–based Map in C++ on Docker based Linux environment. **(C++, Linux, Docker, Git)**
- **Vaccine Appointment Scheduling System**:
  - Developed a Java application using Builder Design pattern and Azure SQL Database to manage caregiver schedules, appointments and vaccine doses. **(Java, Azure SQL Database)**
- **Price Match Product Comparison App**:
  - Designed & developed web app based on client specification, providing consumers price information on products at popular online retailers using retail APIs.**(Dart, Flutter, REST APIs, Git)**
- **Skyline National Honors Society Volunteering App**:
  - A full-stack mobile app that tracks National Honor Society members' volunteer hours; implemented in Dart using object-oriented programming, ADTs, Firebase Firestore NoSQL database, and Firebase Auth. **(Dart, Flutter, NoSQL, Git)**
  - Conducted interviews to discuss the problem, design, and core functionality of the mobile app the client desired.