Dhananjay Khulbe

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Education

Lynbrook High School San Jose, CA
GPA: 3.917/4.0 *Aug. 2023 – June 2027*

- **Current Course Work:** Ap Comp Sci A, Ap Calc BC, Chem H, World History, Spanish 3, World Literature
- **Independent Study:** Ap Physics 1, Ap Psychology, Ap Environmental Science
- **Student Organization:** Lynbrook Robotics Club, Computer Science Club, Math Club

Experience

Test and Drive Lead May 2024 – Present
FRC Team 846 - The Funky Monkeys *Lynbrook High School, CA*

- Writing modular robot code and visual odometery for the 2025 FRC Season
- Using languages such as C++, Python, and Java to aid in robot vision, dynamic calculations, and architecture performance improvements, helping build times decrease by 90%
- Maintaining a comprehensive issue-tracking log to document and reference past challenges for quick issue fixes
- Working closely with 30+ members of our FRC team as a key part of software

Software Engineer Intern Jan. 2025 – Present
OMNI RPA INC *San Jose, CA*

- Using Python and GO to develop scripts for efficient data handling for over 600 cloud services
- Working with graph databases like Nebula for data-mapping
- Experience with AWS, Azure, and GCP

School STTAR App Developer Dec 2024 – Present
Lynbrook High School *San Jose, CA*

- Working with school admin's and tech team to developed an app to streamline school based tutoring for over 90 tutors, 200 students, and 70 teachers
- Using Flutter, Google Cloud Services, AWS, and Git to develop the front-end and data management
- Implementing a Multi-Criteria decision algorithm to aid with selection processess
- Using AWS Services such as AWS DynamoDB and Lamba for data storage and requests

Projects

Scouting App | *JavaScript, HTML/CSS, Python, Git* Dec 2024 – March 2024

- Co-developed an app to track FRC game data during matches for alliance selections
- Developed and maintained modular code to ensure scalability and ease of future updates
- Automated alliance details to decide match specifics for efficient game play

Anti-Tipping Code | *C++, Git* Jan. 2054 – Feb. 2025

- Developed a C++ program to dynamically adjust max-acceleration for a robot to prevent it from tipping over
- Accounting for several factors such as the inclusion of lifts such as an elevator or telescope
- Prevented tipping for X matches throughout the 2025 FRC Season

ASL Translator | *Python, Pandas, Git* May 2024 – Present

- Co-developing a basic web-call platform for real time ASL translation
- Implemented gesture recognition using video capture and machine learning

Technical Skills

Languages: Java, Python, C++, JavaScript, HTML/CSS, Dart
Frameworks: React, Node.js, Flutter
Developer Tools: Git, Google Cloud Platform, Visual Studio Code, AWS
Other: LaTeX