

# Teja Dasari

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## EDUCATION & CERTIFICATES

### Bachelor of Science in Computer Science and Software Engineering

September 2023 - Present

University of Washington Bothell

Expected Graduation Date: June 2027

GPA: 3.72/4.00

Notable coursework: CSE 121: *Introduction to Computer Programming I*, CSS 143: *Computer Programming II*, CSSSKL 143: *Computer Programming Skills II*, CSS 342: *Data Structures & Algorithms I*, CSS 301: *Technical Writing for Computing Professionals*, CSS 343: *Data Structures & Algorithms II*, CSS 350: *Management Principles for Computing Professionals*, CSS 360: *Software Engineering*, CSS 370: *Analysis and Design*, CSS 422: *Hardware and Computer Organization*, CSS 475: *Database Systems*

### AZ-900: Azure Fundamentals

October 2024

Microsoft Credentials

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, HTML, CSS, JavaScript, C++

**Operating Systems:** Android, Windows

**IDEs:** Android Studio, IntelliJ, Visual Studio Code, CLion

**Modules:**

- **Python:** math, pandas, sklearn, xgboost, matplotlib, seaborn, numpy, tensorflow, keras
- **HTML, CSS, JavaScript:** Next.js, TailwindCSS, Vue.js, Leaflet.js

**Other technologies:** Git, GitHub, Azure Cloud Services, PocketBase, Firebase, MapTiler, MongoDB,

## RELEVANT EXPERIENCE

### Onboarded Software Team Member, Trickfire Robotics

October 2024 - Present

- Collaborating with other team members on assigned software tasks to submit a fully functional rover for the University Rover Challenge 2025.
- Participating in stand-up meetings, reporting on individual progress with assigned tasks
- Currently individually developing a Map component for Vue.js web application to track a rover that does not rely on any network service, apart from connecting to the rover

### Onboarded Collaborator, iCare

June 2024 - Present

- Participating in meetings, conducting literature reviews and research at Dr. Dong Si's discretion
- Currently designing a consistent, reliable, instantaneous mental/emotional measuring system
- Technologies: Python, Jupyter Notebooks, Meta Llama 2, Next.js, TailwindCSS

### Grading Assistant, Kumon-Redmond Center

February 2024 - Present

- Prioritized grading of classwork and homework assignments for students
- Maintained cleanliness and organization of classroom and lobby area
- Collaborating with instructor(s) to address daily priorities and needs

## TECHNICAL PROJECTS

### Player Data Manager, CSS 475 - [O-xix/PlayerDataManager\\_phpMyAdmin](#)

June 2025

- Designed and implemented a relational database in **MySQL** for tracking player builds and game statistics (sampled from *Destiny/Destiny 2*), supporting both **CRUD operations** and advanced analytical queries for players, studios, and producers.

- Collaborated in a 5-person team to produce a **normalized schema (3NF)**, implement SQL queries for natural language questions, and develop a **PHP web interface** to demonstrate secure database interaction and prevent SQL injection.

**Speech-to-Meme**, CSS 370 - [O-xix/speech-to-meme-discord-bot](#)

May 2025

- Prototyped a Discord bot in **TypeScript** using **Discord.js**, **Vosk**, **Fuse.js**, and **SQLite**, enabling users to send memes in text channels via real-time voice commands while in a voice channel.
- Designed and implemented core features including **speech-to-text processing**, **fuzzy search** for command matching, and database-backed meme management, supported by a full business proposal and system design documentation.

**GomiGotchi**, UWB Hacks - [O-xix/GomiGotchi\\_FrontEnd](#)

April 2025

- Designed and prototyped a mobile app using **React** and **Leaflet.js** with a backend built in **Express.js** and **MongoDB**, gamifying public litter cleanup through **GPS-tracked user activity**.
- Collaborated in a 5-person team to develop a digital pet system that encourages environmental action, integrating gamification mechanics, location-based services, and user engagement design.

**CribCam**, CSS 360 - [O-xix/CribCam](#)

January - March 2025

- Designed an advanced home surveillance system concept with support for **multi-camera input**, **motion detection**, **facial recognition**, and **real-time user alerts**, documented through a complete system requirements specification.
- Produced detailed deliverables including **client-server** architecture, backend **microservices**, **cloud integrations (AWS S3, RDS, Cognito, MediaConvert, CloudFront)**, and UI/UX design, highlighting strengths in software design, security, and technical communication.

**GrapeVine**, CSS 360 - [O-xix/grapevine](#)

January - March 2025

- Collaborated in a 5-person team to design a cross-platform speech translation app leveraging **Natural Language Processing (NLP)**, **Machine Learning (ML)**, and **sentiment analysis** for accurate, context-aware translations across dialects and languages.
- Produced comprehensive deliverables including system architecture, requirements specification, market analysis, and development lifecycle planning, showcasing strengths in technical writing, product design, and cross-functional collaboration.

**Maze Navigator AI**, UWB Hacks AI - [O-xix/JavaReinforcementLearningMazeNavigationAI](#)

April 2024

- Created Java application that uses reinforcement learning (intuitive probability) to navigate a randomly generated square maze that is displayed on screen
- Submitted for the 2024 annual UWB ACM Hack-a-thon, "UWB Hacks AI", which included over 150 participants and took place over three days

**Universal Diary**, IB Comp Sci SL External Assessment - [O-xix/PublicDiaryApp](#)

February 2022

- Developed Android Application that can navigate to different days of the calendar, which can have as many diary entries as needed and those diary entries can be commented on
- Submitted for the IB Computer Science SL External Assessment and was initially developed over a couple months
- Currently continuing occasional development to use Firebase for cloud storage and manage user access and improve UI, to ultimately push to the Google Play Console