Ishaan Shete

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Education

University of Washington (GPA: 3.7/4.0) | *B.S. in Computer Science and Software Engineering* **September 2023 - Present**

- **Coursework:** Data Structures, Algorithms, Technical Writing, Software Engineering, Analysis and Design, Management Principles, Cybersecurity, Computer Hardware, Database Systems, Web Development, Parallel & Distributed Systems, Operating Systems, Cloud Computing, IoT, AI/ML

Skills

Languages: C++, Java, Python, C#, JavaScript, TypeScript, HTML, CSS

Technologies: React.js, Next.js, Node.js, Express.js, Django, RESTful APIs, Bootstrap, Git, GitHub, Amazon Q, TensorFlow, Angular, Jupyter, PartyRocks, AWS (Bedrock, Lambda), MongoDB, NoSQL, PostgreSQL, Vercel, Render, Firebase, Replit

Experience

Grader for UW CSS 390: Special Computing Topics | *University of Washington* **October 2025 – Present**

- Graded programming and AI ethics assignments for **multiple students**, providing constructive feedback on topics such as **algorithmic bias**, **cyber moderation**, and **responsible AI design**

Trickfire Robotics Club | Cooling Team, *University of Washington* **January 2025 – Present**

- Engineered an air-based cooling system for the mechanical arm of a Mars Rover model, increasing arm lifespan by **300%**
- Worked with a team of **7 cross-disciplinary engineers** to integrate cooling with mechanical, and software systems
- Implemented **low-latency UART** communication between the **NVIDIA Orin module** and **Arduino** using **Python**, and designed a sensor-driven DC fan control in **C#** to maintain temperatures below 100°F

CricGang: Cricket Analysis Website Developer | *University of Washington* **May 2025 – August 2025**

- Developed cricket analytics web application to track live performance metrics and provide data-driven feedback
- Implemented with **Next.js** frontend, **MongoDB**, and **NumPy** scripts to automate data ingestion, supporting **25+ users**
- Reduced team errors by **50%** through automated data validation and suggested improvements

Projects

Taal AI: Beat Recognition ML Model

- Built an end-to-end ML pipeline to classify whether tabla audio clips follow **Teentaal** (16-beat rhythmic cycle)
- Extracted rhythm-focused features (onset density, IOI stats, MFCCs, chroma, beat histograms) using Python's **librosa** library
- Evaluated **SVM**, **Random Forest**, **Logistic Regression**, and **k-NN**, achieving up to **87% F1-score** with cross-validation

LifeBoon: Unified Health Interface Link

- Engineered a **full-stack** healthcare platform that enables users to compare nearby hospitals and clinics based on available services, pricing, and insurance coverage for transparent, data-driven healthcare decisions
- Developed the backend using **Express.js** and **MongoDB Atlas**, and developed the frontend using **Next.js** for dynamic routing and **optimized** server-side rendering
- Deployed a distributed architecture using **Render (backend)** and **Vercel (frontend)**, integrating seamless **CI/CD pipelines** via **GitHub** to achieve **99.9%** uptime and reduce deployment time to **<5s**

FlowScope: AI-based Heart Monitor Link

- Collaborated with a **5-person** team to develop **FlowScope**, a web app that monitors heart rate, blood pressure, ECG, respiratory rate, and SpO2 from smartwatches and fitness trackers
- Designed an **AI-based risk detection** system using **TensorFlow**, generating doctor-ready PDF reports and integrating an interactive chatbot for health insights
- Built a **full-stack** solution with **React**, **Node.js + Express.js**, **PostgreSQL**, integrating **Apple Health** and **Google Fit APIs** for seamless data synchronization
- Earned "**Student Favorite**" at the **UWB Hacks** hackathon with over **95 votes** for usability and innovation