

Murtaza Tayabali

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EDUCATION

University of Houston

Bachelor of Science in Computer Science

Houston, TX

May 2026

TECHNICAL SKILLS

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

Frameworks & Libraries: React, Next.js, Node.js, Tailwind CSS, Unity

Databases, APIs & Cloud: MongoDB, Firebase, SQLite, REST APIs, OAuth 2.0, Microsoft Graph API, AWS

Developer Tools & Practices: Git, GitHub Actions, CI/CD, Docker, Figma, Agile/Scrum, Test-Driven Development

Design: Adobe Photoshop, Adobe After Effects, Adobe Premiere, Aseprite

PROJECTS

NAVI — Dashboard AI | *Next.js, TypeScript, React, Node.js, MongoDB, AWS*

October 2025

- Won **3rd place** among **50+ teams** at CodeRed Hackathon building an AI-powered assistant that consolidates emails, calendars, and notifications into a unified dashboard
- Architected a modular backend integration layer connecting Gmail, Google Calendar, and Outlook via OAuth 2.0 and Microsoft Graph API with custom token refresh logic, MongoDB persistence, and AWS-hosted deployment
- Integrated the ElevenLabs API for voice output and built NLP-driven natural language understanding into a responsive React dashboard handling concurrent API streams

Castle of Time | *Unity, C#, GitHub Actions*

September 2025 – May 2026

- Collaborated with a **6-person team** using Agile/Scrum sprints to ship a narrative 2D mystery game across **30 versioned releases** via a GitHub Actions CI/CD pipeline for automated deployment
- Won **1st place** among **10 teams** in a competition judged by ex-game devs and industry professionals from game studios
- Implemented a branching dialogue system with memory persistence across time loops and led a **3-person art team** on the game's pixel art pipeline

GPU Ray Tracer | *C++, CUDA*

January 2025 – May 2025

- Built a GPU-accelerated ray tracer that renders 1920×1080 scenes in **less than 3 seconds** using CUDA kernels, BVH acceleration, and PBR techniques.

Bali-Bot — Discord Bot | *Python, SQLite, Riot Games API*

June 2026 – Present

- Built and deployed a modular Discord bot with cog-based architecture, a SQLite database layer, and Riot Games and Tracker.gg API integrations delivering **automated hourly updates** on a self-hosted Linux server

LEADERSHIP

CougarCS

August 2024 – Present

Vice President of Marketing

Houston, TX

- Led a team of **3 designers and 2 historians** to drive marketing campaigns for UH's largest CS organization, growing active membership to **100+ students** and increasing engagement **10%+** via Figma and Adobe Creative Cloud

EXPERIENCE

Northwest Educational Center

August 2026 – Present

Computer Instructor & IT Lead

Houston, TX

- Taught evening computer science to a rolling cohort of up to 10 students, **improving grades by 30%** through hands-on, individualized instruction
- Administered school-wide device and server infrastructure, **reducing system downtime by 10%** through proactive maintenance

Walmart

May 2025 – August 2026

Front End Associate

Houston, TX

- Delivered customer-facing service processing **200+ transactions daily** with full accuracy
- Maintained front-end operations including lane readiness and self-checkout support