

Jai Sammpath

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EDUCATION

School for The Talented And Gifted
(2021 - 2025)

4.57 Weighted GPA
1590 SAT

CERTIFICATIONS

AWS Certified Cloud Practitioner

Issued Feb 2023

Oracle Certified Associate,
Java SE 8 Programmer

Issued Jul 2023

AWS Certified Machine Learning
- Specialty

Issued Jul 2024

SKILLS

Soft Skills

- Teamwork
- Coordination/Organization
- Critical Thinking
- Presentation
- Communication
- Marketing/Writing
- Teaching/Mentoring

Technical Skills

- Java, Python, Kotlin, HTML/CSS, Dart, Flutter, Flask, JavaScript
- Docker, Kubernetes
- AWS & Google Cloud Architecture
- Firebase & Back4App
- Artificial Intelligence, Machine Learning
- Search Engine Optimization
- Engineering/Design

EXPERIENCE

Core Software Developer | FIRST Tech Challenge Team 6832

Sep 2022 - Present (2 years)

- Led code team and programmed a world-class robot with my team - Planned and led outreach events with engineers from AWS, students from the community.
- Advanced to World Championship (2022-2023) and State Championship (2023-2024)

Assistant Senior Patrol Leader, Troop Guide | BSA Troop 807

May 2021 - Present (3 years 4 months)

- Troop Guide - led and mentored scouts during activities and campouts, fostered personal growth and leadership skills among troop members.
- Assistant Senior Patrol Leader - organized and led troop meetings/activities, managed troop operations, encouraged teamwork and collaboration among Scouts.

Software Engineering Intern | SpeechPundit

June 2024 - Present (4 months)

- Developed an ML model using Python in to generate an accurate composite metric for recorded speech, looking at volume consistency, syllable clarity, etc.
- Containerized development of the entire audio processing stack using Docker

Music Specialist | Let The Beat Build

Jun 2023 - Jul 2023 (2 months)

- Taught elementary-age children social and emotional awareness through music production
- Worked with a Digital Audio Workstation and industry-grade audio equipment to provide the best creative experience possible

Distinguished Carnatic Performer | Sangeetha Sammohana Pathashala

Feb 2011 - Present (13 years 6 months)

- First in School to complete a formal vocal arangetram (graduation)
 - Presented a 3+ hour solo performance in front of hundreds
 - Acclaimed by a reputable Carnatic singer, Smt. Thanmayee Krishnamurthy, published in news internationally
- Accumulated 20+ hours of on-stage performance experience
- Mentored younger students, fostered a love for the art form

Code Sensei | CodeNinjas

Jun 2023 - Aug 2023 (3 months)

- Inspired young minds in technology and coding through block code and JavaScript using the CodeNinjas platform.
- Actively collaborated with parents and fellow educators to create a positive and inclusive learning environment.

Medical Content Manager | Passion Health Physicians

Jul 2022 - Aug 2023 (1 year 2 months)

- Managed website and grew viewership and user interaction on site by 15%
- Wrote and curated search-engine optimized content to increase web traffic dramatically

AWARDS/HONORS

Congressional App Challenge Winner

Developed an app, OurGarden, that won my Congressional District for its vision and potential. Presented at the national #HouseofCode Conference.

Dean's List Finalist - FIRST Robotics

1 of 4 students in the North Texas region recognized for individual contribution to FIRST Robotics and my team, Iron Reign. I was evaluated for my academic performance, extracurricular activities, and passion for and commitment to robotics.

Eagle Scout Award - Boy Scouts of America

Earned the highest rank in Scouting by completing a community service project, demonstrating leadership, and committing to the values of Scouting.

Presidential Volunteer Service Award - Gold

Award issued by President Biden to recognize exemplary commitment to public service, volunteered for over 100 hours in 2022.

HOBBIES

Carnatic (Indian Classical) Music

- 13+ years of experience
- Completed my arangetram (graduation) in Sept. 2023

Music Production App Development

PROJECTS

OurGarden (<https://apple.co/3Y0y7MA> on the App Store)

Developed an app in Flutter that streamlines seedling sharing and garden management. It encourages community gardening, helps alleviate food deserts, and provides an organized platform for gardening advice and plant trading.

AP Exam Schedule Notifier

Created a Flask-based notification system and portal that converts room assignments from spreadsheets into personalized email schedules for students. The system automates data processing and email distribution, helping school counselors efficiently manage and communicate student schedules.

Raised Planters at The Pearl

Constructed a raised planter and waterproofed existing ones at an assisted living facility to improve accessibility for residents with mobility issues and ensure long-term use. The raised design allows easier gardening for those with difficulty bending, while waterproofing helps protect and maintain the planters, supporting the therapeutic benefits of gardening for the residents.

Medilingua

Assisted in the ideation and design of a mobile app that delivers a translation layer for non-native English speakers during medical emergencies, ensuring they can effectively communicate with healthcare professionals. The app provides real-time translation of medical terms and emergency phrases, helping bridge the language barrier and facilitate swift, accurate communication in critical situations.

FTC Dashboard Enhancements

Enhanced real-time robot visualization and telemetry tool for FTC (FIRST Tech Challenge) teams by implementing flexible origin settings and additional features, which were integrated into an open-source repository. These updates allowed users to customize the visual reference point of their robot's data, improving the accuracy of telemetry information and overall usability. By open-sourcing these changes, the enhancements became available to hundreds of FTC teams, fostering a collaborative environment and benefiting the wider robotics community with better tools for robot control and diagnostics.

