

Venkata Maruthi Sowmyanath Adapala

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EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science

Mississauga, ON

Sept. 2023 – May 2028

- Relevant Coursework: System Design, Object Oriented Programming, Web Development

AWARDS & ACHIEVEMENTS

Dean's List Scholar — University of Toronto, Mississauga

June 2024, June 2025

- Awarded for maintaining a cGPA of **3.5** or higher

CERTIFICATIONS

AWS Certified Cloud Practitioner

January 2026

Oracle Certified Associate, Java SE 8 Programmer

July 2025

EXPERIENCE

Embedded Programmer

September 2022 – April 2023

FIRST Robotics Competition Team 5409, Garth Webb Secondary School

Oakville, ON

- Collaborated with seven other developers to build a **Java**-based control software with **WPILib**'s command-based framework, organizing robot behavior into modular subsystems and commands (drivetrain, vision, LEDs, intake, claw, arm) across 50+ source files.
- Integrated a **Limelight camera** for real-time field localization from retro-reflective target tracking and wrote vision-based targeting commands that calculate target distance using trigonometric angle-to-distance conversion from camera tilt angle, enabling **automatic robot alignment** for scoring targets
- Competed at the FIRST Robotics Competition **World Championships**, ranking within the **top 18% of teams globally**

PROJECTS

SmartSyllabus | JS, React, Python, Flask, JWT, SQLite, Google Gemini

January 2026 – Present

- Collaborated with five other developers to build a **full-stack academic planning web app** that lets students upload course syllabi as PDFs and **automatically extract key information** like deadlines and schedules to populate an interactive calendar and dashboard
- Used *React* for the frontend, *Flask* for the backend (*27 REST endpoints*), and both *PyMuPDF* and *Google Gemini* for PDF text extraction and parsing
- Selected for **Ideation Lab**, a competitive experiential learning program hosted by **ICUBE UTM**, the hub for social entrepreneurship and *early-stage startups* in the University of Toronto, Mississauga

Radio Calico | JS, HLS.js, Node.js/Express, Jest PostgreSQL, Docker, nginx, Claude

April 2026 – Present

- Built a **full-stack web radio player** for a live *HLS* audio stream. It shows real-time metadata, album art, song history, and lets users like/dislike tracks
- Containerized the app with a **multi-stage Docker** setup (nginx, Express API, Postgres) for dev and prod, with a Jest/jsdom/pg-mem **test suite** and a GitHub Actions **CI/CD pipeline** including security scanning (npm audit, Trivy, Semgrep, Gitleaks)
- Built end to end with **Claude** as a development partner, covering architecture, API design, and database schema modeling through backend implementation, testing, containerization, and performance tuning

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C, RiSC Assembly

Testing and Libraries: Jest, jsdom, pg-mem, HLS.js, PyMuPDF, unit testing, integration testing

AI-Assisted Development: Claude, Google Gemini, architecture prototyping, testing support, data extraction

Security and Code Quality: Trivy, Semgrep, Gitleaks, vulnerability scanning, static analysis

Developer Tools and DevOps: Git, Docker, Docker Compose, GitHub Actions CI/CD, Makefile, Vite, AWS

Databases and Backend Technologies: Prisma, PostgreSQL, SQLite, REST APIs, JWT Auth, SMTP, nginx

Frameworks and Runtime Environments: React, Next.js, Node.js, Express, Flask, JavaFX, React Router