

Aadhavan Srinivasan

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EDUCATION

Purdue University

Bachelor's of Science - Computer Engineering

West Lafayette, IN

Aug 2023 — May 2027

- GPA: 3.84
- Relevant Coursework: Computer Architecture, ASIC Design, Compilers, Operating Systems, Data Structures, Software Engineering

WORK EXPERIENCE

Purdue University

Jan 2026 — Present

UTA - Intro to Digital System Design (ECE 270) and Microprocessor Systems (ECE 362)

- Guide students through topics in Digital Logic, SystemVerilog, Embedded C and RISC-V assembly.
- Provide individualized support to students in labs and Office Hours, answering questions and explaining concepts.

GE Appliances, a Haier Company

May 2026 — Aug 2026

Embedded Software - WiFi

- Worked on a large-scale rewrite of the Bluetooth Low-Energy (BLE) stack on WiFi boards used in multiple appliances.
- Tested the software on TI and Realtek Bluetooth modules, gaining in-depth knowledge on the intricacies of the BLE protocol.

GE Appliances, a Haier Company

Jan 2025 — Aug 2025

Embedded Software - Commercial AC

- Took full ownership of a feature to lock out heat pump operation at a temperature threshold, to comply with NYC building regulations.
- Directly helped the company unlock a new market, with the potential for millions of dollars in revenue.
- Drafted requirements, designed and implemented the feature, along with a setting to modify this threshold on the UI.

Embedded Software - Refrigeration

- Implemented modules to calculate power consumed by various components.
- Designed a module to notify service technicians of low dispenser flow rates, improving service efficiency.
- Designed and implemented a plugin for future engineers to monitor the purge status of a dispenser.

TECHNICAL EXPERIENCE

Purdue IEEE

Aug 2024 — Dec 2024

Software Saturdays Chair

- Organized and taught an 8-week supplemental course on Linux and Bash, on behalf of Purdue IEEE.
- Held weekly lectures, quizzes and assignments, enabling students of all majors to learn programming skills.

Purdue EPICS

Jan 2024 — May 2024

EVEI (Electric Vehicle Event Infrastructure) Geofence - Team Member

- Designed geographic boundary sensors using a Raspberry Pi Pico to improve safety in the High School EV Grand Prix.
- Used an Inertial Measurement Unit to design a bounds-detection algorithm in Python accurate to 10 cm.

PROJECTS <https://gitea.twomorecents.org/Rockingcool>

Speechguesser - An online game that involves guessing languages from speech samples

Jun 2026 — Present

Amusid Guitar Tuner - Guitar tuner and playback device using an RP2350, ADC and DAC

Mar 2026 — May 2026

Systolic Array - Helped implement a Systolic Array for Matrix multiplication in SystemVerilog

Mar 2026 — Apr 2026

Indian Translate (<https://indiantranslate.com>) - Translation map of Indian languages

Apr 2025

kleingrep - Regular expression engine and library written in Go, allowing advanced text search.

Oct 2024 — Feb 2025

sitegen - Static-site generator written in Bash, enabling creation of web pages without code

Jan 2024

ACTIVITIES AND HOBBIES

- Programming in C, C++, SystemVerilog, Go, Bash, Java, Lua, Python, HTML/CSS and Javascript
- Blogging, soccer, playing guitar, working out