Dylan Devasia

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Objective

I am a Computer Engineering Junior at Texas A&M, seeking an internship for Summer 2026.

Education

Texas A&M University, College Station. TX
3.93/4.0 GPA, Computer Engineering Class of 2027
Relevant Courses: Discrete Math(222), Data Structures(221), Foundations of Software Engineering(331), Computer Architecture and Design(350), Topics in Applied Mathematics(311), Signals and Systems(314), Intro to Computer Systems(313), Machine Learning(427)

Work Experience

Spring 2026-Current **Texas A&M, College Station TX**- *Research Assistant*

- Summarized and read research papers covering Hardware Security topics such as **Hardware Fuzzing**, Seed Generation, Mutation Engines, Feedback Engines, and Optimization of Fuzzers.
- Analyzed Google's open source neural processing unit **CoralNPU** so that compatibility with hardware fuzzing tool "The Huzz" is possible, and updated fuzzing tool to include instructions specific to the NPU.

Spring 2026-Current **ArchivePicks LLC, College Station TX**- *Software Engineer-ML*

- Utilized companies database to develop Machine Learning predictions using **pandas, numpy, pytorch** to create kernelized and nonkernelized logistic models that give predictions in terms of percentages based off of previous data.
- Developed continuous learning by allowing weight vectors and standardized values to be continuously updated and recalculated as new data arrives. Utilized SGD on convex loss functions and self optimizing learning rate during training.

Summer 2025 **Schneider Electric, Raleigh NC**- *R&D Power Systems Engineering Intern*

- Wrote PLC code that would derive an **indicator for a battery's voltage status**, developed an **energy tracking system** using persistent memory. **Utilized C# to display this information** cleanly, utilized version control through Github.
- Collaborated with the NEL team to develop an **HMI interface** for an EV charging station that displays information about power flow, environmental impact, lifetime data, internal batteries and EV connectivity statuses and percentages.
- Coordinated development of a **disaster response trailer** with Footprint Project, including written agreements between Schneider employees on permissions, coordinating times and events, deciding on hardware, verifying design with experts.

Certifications/Skills

- Local Cert OPAC Microsoft Database (AKA Access), Excel (Basic and Intermediate), PowerPoint, Word (Basic and Intermediate)
- IT Specialist - Java; Issuer: Certiport
- Adept in Python, C, C++, Verilog(RTL), Linux, Git; Acquainted with Structured Text(PLC), C#, Matlab, LTspice, ARMv8(Assembly)

Projects

Github: https://github.com/dylandevasia
Personal Website:
Independently developed a website in HTML, CSS, and Javascript to portray my professional profile, skills, and qualifications for easier portrayal of professional information. Successfully developed five HTML pages with two alternate style choices throughout the website, embedded external links in images and text, added pop-ups on click for extended descriptions. Used the Waterfall method to manage the development of this project. You can access it through this link: https://people.tamu.edu/~dylandevasia/

2D Mario imitation game:
Collaborated with a team to develop and integrate key game features using Java, including object interactions, player avatar animations, hidden stages, level design, start/end screens, a player life system, advanced physics simulations, and dynamic player movement.

ARMv8 Instruction Compiler/CPU:
Developed a complete CPU subsystem in Verilog (Icarus), including the register file, ALU, control unit, sign extender, next-instruction logic, and memory modules; designed and verified test benches for each component and the integrated system.

Awards/Achievements

- National Merit Recognition Scholar
- Recognized for academic excellence through placement on the Dean's List (A&M Engineering)
- Graduated Round Rock High School top 10%, SAT Score 1500/1600(Top 1% Nationally)