Justin Le

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Education

Texas A&M University // Engineering Honors May 2027
Bachelor of Science in Computer Science, Minor in Mathematics & Statistics *College Station, TX*
- **GPA:** 4.0000 (4.0000 Scale)
- **Relevant Coursework:** Python, Program Design and Concepts in C++, Data Structures and Algorithms, Discrete Structures for Computing, Computer Organization

Dulles High School // Math and Science Academy May 2024
High School Diploma *Sugar Land, TX*
- **GPA:** 4.6290 (5.0 Weighted Scale)/103.7258 (100.0 Scale)/4.0000 (4.0 Unweighted Scale)
- **Rank:** 1/518
- **SAT:** 1520 | Math 800 — EVBRW 720

Experience

PiStar AI and Optimization Lab Feb. 2025 – May 2025
Researcher *College Station, TX*
- Leveraged **reinforcement learning** models to enhance navigation efficiency for autonomous driving by **25%** driven by **PyTorch**

Flow (Early-Stage Student Startup, Angel Funded) Dec. 2024 – Present
Lead Backend Software Engineer (Part-time) *College Station, TX*
- Led backend development of a mobile app to improve ride share experiences with **100+** drivers on board powered by **Google Firebase, Google Maps API, and Stripe**
- Implemented an advanced AI model engineered to identify and predict high-demand hotspots for drivers' earning potential with **PyTorch**

TAMUhack Nov. 2024 – Present
Technical Director *College Station, TX*
- Plan and develop website experiences attracting **20K+ visitors** for one Texas's largest student-run hackathons with **800+ attendees** powered by **Next.js, Astro, Svelte, React, GSAP, Framer, and more**
- Processed over **1K+ applications and email sending** using hacker registration system written with **Django**
- Built a pairwise-comparison judging system improving consistency across **150+ teams** despite judges reviewing only **∼5% of entries** utilizing **React, FastAPI, SQLAlchemy, and PostgreSQL**, with **Pytest** for testing

TIDAL @ TAMU Sep. 2024 – Nov. 2024
DeepRacer RL Engineer *College Station, TX*
- Optimized team's reward model to produce a **25% increase in efficiency** by incorporating **machine learning** techniques in **Python**

Projects

Presentation Coach | 2024 HowdyHack Winner | *Python, TypeScript, CSS, Flask, Next.js, React, Tailwind CSS* Sep. 2024
- Collaborated with team through **Git** to integrate **OpenCV** in **Python** to determine audience engagement through facial recognition and **Whisper** to pull a transcript, identifying repeat and filler words, as well as words per minute
- Built a responsive front end using **Next.js** and **Chart.js**to visually display audience retention over time, and **Flask** to store these time changes and correlate time data with audience engagement

Learning PyTorch | *Python, PyTorch* Aug. 2024 – Present
- Utilized **deep neural network** techniques with **PyTorch** to develop and train linear regression models, optimizing performance through experimentation with epochs and learning rates
- Leveraged GPU resources to implement **binary classification** predictions using **PyTorch**, refining model through a standard workflow

Honors and Awards

HowdyHack 2024 Winner | Issued by TAMUhack Sep. 2024
The Pete Hunter Dunham '41 Mem Scholarship | Issued by The Association of Former Students Jul. 2024
Schlumberger Founders Scholarship | Issued by SLB May. 2024
Lechner Scholarship | 2024 Issued by Scholarships & Financial Aid at Texas A&M University College Station Apr. 2024

Technical Skills

Languages: (Proficient): Python, TypeScript, JavaScript, C++, HTML, CSS (Experienced): SQL, Java
Tools/Frameworks: React, Next.js, Svelte, Tailwind CSS, Framer Motion, GSAP, Django, FastAPI, Flask, PyTorch, PostgreSQL, SQLAlchemy, Pytest, Docker, Git, Google Firebase
Other Skills: Oral + written communication; active listening; good under pressure; critical thinking; problem-solving; self-motivated; good work ethic; quick learner; great leadership skills