Dylan Harden

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EDUCATION

Texas A&M University - College Station, TX   Aug. 2023 - May 2025
Master of Computer Science, GPA: 3.75
Coursework: Machine Learning, Deep Learning, Deep RL, LLMs, Trustworthy NLP, AI Robotics, Computer Vision
Texas A&M University - College Station, TX   Aug. 2019 - May 2023
Bachelor of Science in Computer Science, Minor in Math, Cum Laude
Coursework: Senior Capstone Design, Software Engineering, Computer Graphics, Computer & Network Security

WORK EXPERIENCE

Samsung - Austin, TX   May 2024 – Aug. 2024
Software Engineer Intern
- Created a company knowledge base chatbot using Python and Llama 3 with Retrieval-Augmented Generation (RAG) on 100,000+ Jira/Confluence pages, enabling users to utilize GenAI with up to date proprietary information
- Implemented authentication with Okta and session storage in MongoDB, ensuring end-to-end privacy for highly confidential R&D data while enabling seamless retrieval of 3000+ conversations per month
- Facilitated rollout to 500 employees by writing Infrastructure as Code (IaC) to deploy 5 systemd services on 2 A100 servers and leveraged NGINX for Load Balancing and High Availability

Resideo (Honeywell) - Austin, TX   May 2023 – July 2023
Cloud Software Engineer Intern
- Implemented a workflow observability solution for doorbell camera registrations using the ElasticSearch .NET SDK, eliminating unnecessary debugging meetings and saving engineering hours for 6 other developers
- Executed a list of 10+ tickets for bug fixes and enhancements in an internal React app to provide over 8 dependent teams with streamlined backend system interactions for IoT device management

Charles Schwab - Austin, TX   June 2022 – Aug. 2022
Software Engineer Intern
- Developed tailored features for 3 user groups in a client-facing web-app with Angular and .NET, transitioning a by-mail voting process to digital for over 10,000 advisors on Schwab Advisor Services platform
- Directed a cross-functional team during a company wide Business Summit Challenge, presenting an innovative product idea to leadership and earning 1st place among all intern groups

TECHNICAL LEADERSHIP

Team Lead - Autonomous Vehicle Navigation Capstone | Python, Flask, PostgreSQL, Docker
- Led a SR capstone team as part of an autonomous vehicle challenge, winning 1st place out of 10 universities
- Used Dijkstra's shortest path algorithm to enable pathfinding between any 2 points on the competition course
- Rectified inaccuracies in an existing Postgres DB with extensive Python data cleaning scripts and SQL queries

Product Owner - TAMU Horticulture Club Website | React, Ruby on Rails, Docker, AWS
- Directed an agile team to develop a web app to streamline Horticulture Club attendance and event tracking
- Implemented dockerfiles to enable isolated environments for consistent deployment across team machines
- Created an event calendar with React, allowing officers to easily add and update events on the Club's website

PROJECTS

Llama3.2.c | C, Python
- Updated an open-source inference engine for Llama 2 to support newer Llama 3.2 family models
- Upgraded to Llama 3 tokenizer by adding regex splits and special token matching for chat formatting in raw C

PyDetectGPT | Python, PyTorch/HuggingFace
- Published an AI generated text detection package to PyPi achieving over 3000 downloads within 2 weeks
- Added a high level detection API and CLI by using probability curvature analysis and Fast-DetectGPT

SKILLS

Languages: Python, JavaScript, TypeScript, C/C++, SQL (Postgres), Java, C#, HTML/CSS
Frameworks & Libraries: React, .NET, Angular, Flask, NodeJS, PyTorch, TensorFlow, Ruby on Rails, Scikit-learn, LangChain
Technologies: Git, Docker, Kubernetes, ElasticSearch, GitHub, AWS, GCP, Azure, MongoDB, Figma, Nginx, REST