Hasan Shameer

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EDUCATION

Drexel University, College of Engineering | GPA: 3.64   **Sep 2020 – Anticipated Mar 2025**
B.S in *Computer Engineering* & *Electrical Engineering*, Minor in *Mathematics*   Philadelphia, PA
Honors: AJ Drexel Scholarship, M. Rosenburg Scholarship, Dean's List – 9 terms

PROFESSIONAL EXPERIENCE

Bristol Myers Squibb   **Oct 2024 – Present**
Cloud Engineer Intern   Lawrenceville, NJ
- Architecting and automating cloud infrastructure with AWS CloudFormation and CDK, to streamline deployments
- Leveraging AWS services (EC2, Lambda) and Python scripting to automate identity and access management processes

Resolution Life US   **Mar 2023 – Sep 2023**
Machine Learning Engineer Intern   Westchester, PA
- Devised Python automation solutions for financial administration and policy rectification tasks, saving 10+ hours weekly
- Designed AWS Athena queries for actuarial reserve data modeling, enhancing accuracy of financial reporting
- Automated real-time Data Lake validation resulting in 40% reduction in data errors and reducing manual effort
- Leveraged SQL scripting for product data extraction, summarization, and error-logging, optimizing the process by 60%

The Penn Mutual Life Insurance Company   **Mar 2022 – Sep 2022**
Software Developer Intern   Horsham, PA
- Developed a predictive analytics tool for insurance forms facilitating advanced data analytics and data visualization
- Engineered the tool as a baseline to compare Machine Learning solutions, reducing underwriting errors by 45%
- Automated CI/CD deployments with Docker & Jenkins; implemented SQLite3, achieving a 70% runtime reduction.
- Created a web scraper to mine data of users from targeted medical forums and set up Sentiment Analysis using NLP

PROJECTS & LEADERSHIP

Learn AI | *Senior Design Project*   **Sep 2023 – Jun 2024**
- Developed an end-to-end web-based educational platform enabling personalized learning through AI feedback
- Built a RESTful API for the backend that integrates Langchain with GPT models, enabling tailored feedback on student submissions, and developed the frontend using React and the MUI Library for a uniform user experience

Senator at **Undergraduate Student Government Association**   **Nov 2022 – Jun 2024**
- Collaborating in establishing a tax-filing resource section in the Drexel Student Guide for 3500+ international students
- Founded a temperature preference option in Student Housing applications, aiming to enhance roommate compatibility

Hummingbird | *Best Personal Safety Project* at **Dragon Hacks**   **Apr 2024**
- Developed an autonomous safety drone to enhance urban safety by escorting individuals during late-night travel
- Engineered the functionality utilizing GPU-accelerated YOLOv5 for object detection, ByteTrack algorithm for continuous tracking, and a PID controller for drone control, ensuring the drone follows at a safe distance

Senior Tutor at **College of Engineering**   **Jul 2023 – Mar 2024**
- Providing academic support and troubleshooting core concepts, in subjects like Chemistry, Statistics and Physics
- Enhancing understanding of core ML concepts such as regression, classification, clustering, decision trees and NN's

Theia | *Best Health Hack* at **Dragon Hacks**   **Apr 2023**
- Engineered a computer vision system with Raspberry Pi enabling the visually impaired to navigate the environment
- Architected a REST API and integrated machine learning pipelines for depth estimation and object detection with an Artificial Intelligence agent system to optimize model selection that improved system accuracy by 40%.

Hygia | *Best Student Project* at **Philly Codefest**   **Apr 2022**
- Developed an app to protect recovering opioid addicts from potential relapses and employed a user-centric interface
- Engineered a map to locate nearby NARCAN centers and pharmacies using public health database, and curated uplifting content through sentiment analysis of over 15,000 articles, enhancing user interaction and support

SKILLS

Languages & Frameworks: Python, C, SQL, JavaScript, MATLAB, TensorFlow, Pytorch, React, Next, Flask, Node
Data & Analysis: SQLite3, MongoDB, DynamoDB, MySQL, Pandas, NumPy, Postman, PostgreSQL, Tableau, Power BI
Cloud & DevOps: AWS – (CDK, Glue, S3, EC2, IAM), GCP, Azure, Selenium, Git, Docker, Linux, GitHub Actions