# TARUN HARIHARAN

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## EDUCATION

**Universität des Saarlandes,** Msc. Data Science and Artificial Engineering *2024-2026*

**Anna University,** BE.  Computer Science and Engineering *2019-2023*

**AWS Certified Developer Associate DVA-C02** *2023*

## WORK EXPERIENCE

**Software Developer  |  Deutsche Hochschule für Prävention und Gesundheitsmanagement** *09/2024 -*

- Developed **Python-Django** web app for course and exam registration, handling over 1,500 student records in MySQL and **reducing** registration/processing **time by 30%** using caching techniques.
- Played a key role in migrating the application from database queries to API-based data access, improving scalability and maintainability
- Developed comprehensive unit and integration tests for the entire application, increasing test coverage to **88%** and ensuring robust performance and reliability.

**Technical Associate | Guidehouse** *08/2023-03/2024*

- Crafting tailored Dynamics 365 solutions using **Power Platform, Azure services** and integration.
- Utilized Python, JavaScript, C#, JQuery, and XML to design and modify Dynamics 365 tools effectively.
- Engineered pipelines and business flows, ensuring seamless integration for optimized client operations.
- Collaborated closely with US State Govts, translating needs into robust solutions using Dynamics 365.

**Project Intern  | Brahmàstra Aerospace & Defence Pvt. Ltd.** *07/2023 - 08/2024*

- Applied the foundational principles of rocket engineering, Orbital mechanics, Fuel and Rocket engine types.
- Evaluated and measured the performance parameters and property selection criterias of components.
- Designed and Developed 3D models on **CATIA v5 and CAD**.
- Investigated Fuel Injectors in rocket engines and assisted drafting **research papers** for the Organisation.
- Compiled a Case study report on Pintle and Impinging Pentad Fuel Injectors.

## PROJECTS

**Vocabulary Webapp |** Checkout github for more projects and details

- Currently involved in building a hosted webapp geared towards users learning wanting to improve and test their vocabulary in any language
- An Input view to enter new words, automatically find meanings and uses using Dictionary/OpenAi Apis
- features to take quizzes, flashcards. Stack : **Django,vPostgresSQL, AWS EC2,R53,RDS**
- Current active userbase : My 10 friends.

## SKILLS

**Python | Django | C++ | HTML and CSS | SQL | JavaScript | Nodejs | React | Figma | Excel | Git | API Gateway | MS office | Devops Pipeline | Aws Lambda | Dynamodb | CICD | Devops | CloudFormation | S3 | Sagemaker | English C1 | German A2**