GOWTHAMI KUMARESAN

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Profile
An energetic, enthusiastic Software professional with one year of experience in the Software/Tech industry. Seeking full-time employment to utilise skillsets for the team and company's goals and vision.

Education

Master of Science	Queen's University Belfast	Belfast, UK	09/2022 – 12/2023

- MSc degree in Software Development. **First class with Distinction** with an **Overall score of 78%**.
- Modules: Databases, Programming, Software Engineering, Computing Foundations, Web Development.

Skills
- Java | JavaScript | Node.js | React | HTML5/CSS | Git | MySQL | MongoDB | Linux
- JUnit | Unit Testing | System Integration testing| Postman API | UML | Agile | Scrum
- Frontend | Backend | Full-Stack | OOP

Course Projects

Database
Database design using Jet2holidays holidays package booking system as the model:
- Designed the Entity-Relationship model and implemented all the major use cases with the required set of SQL queries. Tools used: MySQL, phpMyAdmin.
- Activities: System design, ER modelling, DB Schema derivation, SQL queries.

Software Engineering
A text-based virtual board game system with a theme of **'Save our planet'** using **Java**
- Served as a lead for the 5-member team and orchestrated the project from inception to delivery.
- Project involved requirements analysis, design (using UML modelling), development and testing (with Eclipse IDE).

Web Development
Designed and developed **'Stacks of Wax'** website using **Node.js, API, Bootstrap, HTML5/CSS, MYSQL**
- High-level requirement: Users can browse music collections by other users and manage their own collections.
- Activities: system-requirements analysis, UI and DB design, development, and testing.

Software Development (Dissertation project)
Real-time Flight Tracking System (Web & Mobile App) using **React, Tailwindcss, MongoDB, Node.js, Twilio, Google Maps API, and External APIs**.
- Developed and launched **'AeroFinder'** (https://aerofinder.onrender.com/), offering real-time flight tracking and comprehensive flight search.
- Implemented interactive maps for finding flight gate, displayed airport amenities, and delivered timely flight notifications for user convenience.
- Activities: Project plan, system-requirements analysis, UI and DB design, development, and testing, Dissertation, and demo.

Work History

Software Developer   **DataWENS Technologies**   Chennai, India   **10/2021 – 09/2022**

Worked in the "Doctor 24By7" product team as a full-stack software developer. "Doctor 24By7" is a feature-packed medical application for the healthcare field.

- Redesigned and developed a specific grid functionality in the product using SQL, CSS, JavaScript, and jQuery.
- Led the design and development of SQL-stored procedures and queries for the use case and requirement.
- Code migration to the Dot NET Core platform. Key activities included use case and requirements analysis, implementation, and testing. Built and tested code for the enhancements in the core platform.
- Performed integration testing and system testing efficiently with required product coverage in a short delivery time.
- Documented several customer usecases quickly for the product release.
- Maintenance and handling of defects for the ongoing releases of the product.

Certifications

- **Building Scalable Java Microservices with Spring Boot and Spring Cloud** – Google Cloud, 2024
- **Foundations of Project Management** – Google, 2021

Others

- Member of the University's Computing Club.
- Participated in multiple hackathon events conducted by the EEECS department.
- Successfully built an application and won appreciation at an event by **Kainos** and the University.

Interests and Hobbies

- Reading books
- Art, Solving Puzzles, Participation in Online coding forums such as Leetcode, HackerEarth

References

- **Dr Aidan McGowan – Senior Lecturer at Queen's University Belfast**
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- **Dr Bee-Yen Toh – Lecturer at Queen's University Belfast**
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- **Mr Joseph Jegan – Project Manager at DataWENS Technologies**
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