

# Hemanth Kumar Ravilla

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## PERSONAL PROFILE

A driven, adaptable engineering graduate currently completing the Master's in Business Analytics at NUIG, with wide knowledge in web application development, architecture, and analytics. Well-developed key skills in many technology domains particularly solution architecture and analytics which have been bolstered by experience in varied development environments including start-ups, product-based companies, established technology consultants as well as research laboratories, in which a passion for learning and gaining proficiency in new skills were acquired. Eager to explore new opportunities and strengthen technical expertise.

## EDUCATION

- Sep 2022 - Jul 2023    Master's Business Analytics, University of Galway**  
Courses Taken: Business Applications Programming, Systems Development and Project Management, Business Modelling and Analytics, Statistics Techniques, Database Systems and Design.
- Jul 2013 - Aug 2017    B.E Electronics and Communication Engineering, Visvesvaraya Technological University (Result 2.1)**  
Final Year Courses Taken: Computer Communication Networks, Network Security, Image Processing, DSP Algorithms, Wireless communication.

## PROFESSIONAL EXPERIENCE

- Jun 2021– Aug 2022    Full-Stack Developer, Torry Harris Business Solutions**
- Implemented a live notification message functionality using SSE. (Server Sent Events)
  - Migrating legacy jQuery project frontend code to react, optimization of react bottlenecks in existing react-codebase using react-dev tools.(profiler)
  - Conceived a log data pipeline and indexed logs into Elastic search with custom Kibana visualizations for monitoring and visualizing the application access/error logs.
  - Improved the Google lighthouse score of the application including parameters such as TTFL(Time to first load), and TTFCP(Time to first contentful paint).
  - Implemented new microservice endpoints using the Django Rest Framework (DRF) as well as interactive API documentation using swagger.
  - Mentored and performed code reviews of junior developers.
  - Spearheaded a POC (proof of concept) to incorporate JsPlumb(Flow-diagram library) with react with freedom over the tools and libraries used based on comparative analysis.
  - AWS administration of development and testing servers including creation, configuring route 53, setting up security rules and managing images.
- Nov 2019 – Mar 2020    Project Assistant II, National Aerospace Laboratories**
- Design and simulation of drone flight paths based on mission parameters in a GUI-based flight planner software.
  - Consolidated the best approach using SciPy (python machine learning library). of mission sequence/commands into scripts(python) to enable automation of mission.
  - Validated the real-world sensor data with simulation data by plotting variance using seaborn. (python visualization library)

- Integration of specialized modules such as RTK (precision GPS) with the (Flight controller unit).
- Creation and maintenance of the specification, protocol, and fail-safe mechanism literature for procuring civil aviation ministry approval.

#### **Nov 2018 – Nov 2019    Software Development Intern, Xyram Software Solutions**

- Developed a front-end dashboard for a health analytics application according to design specifications using react framework.
- Performed database upgrades to adhere to GDPR.
- Overhauled the cookie and customer tracking mechanisms to be GDPR compliant.
- Developed a microservice-based on a Node.js server for reporting needs of the application.
- Integrated and automated data extraction, data cleaning and pre-processing and visualization into the reporting pipeline using Python (Pandas, NumPy and Seaborn).

#### **Sep 2017 – Sep 2018    Application Development Associate, Accenture**

- Provided several UI enhancements for the application.
- Resolved numerous high-priority bug fixes within the agreed-upon estimate.
- Implemented SQL jobs for application database routine maintenance.
- Developed a high-traffic API along with SQL-stored procedures and functions for integration with an intra-organization app.
- Coordinated with an external security audit team to understand the extent of application vulnerability and patch vulnerabilities like (Clickjacking, XSS, and CSRF).

### **SKILLS**

**Teamwork:** Strong ability to collaborate in teams, especially in my ability to consider other viewpoints and motivate team members.

**Communication:** Developed effective communication skills, particularly from my experience assisting and guiding new joiners as a mentor and performing code reviews.

**Leadership Skills:** Developed leadership skills while leading a successful POC by managing the user stories, tools and delivering on the agreed-upon deadlines.

**Technical skills:** HTML, CSS, JavaScript, Typescript, Python, React, Node Js, SQL database (MySQL, MSSQL, MariaDB, Postgres), Mongo DB, ELK (Elastic Search, Logstash, Kibana), Pandas, Seaborn. Selenium web driver, Burp Suite, Cypress, Jest, GIT, Jira, Confluence.

### **HOBBIES & INTERESTS**

- **Hiking:** Competed treks to 3 of the highest peaks in Southern India
- **Books:** Voracious reader, interested in Thrillers, Sci-fi, Foreign Policy, and Human Evolution.

### **REFEREES**

References Available Upon Request