

Benito Kaliankara Varghese

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Skills

Languages: JavaScript, HTML, CSS/SCSS, Python, SQL, JSON, Matlab, Bash

Libraries & Frameworks: React, Typescript, Mongo, NodeJS, Express

Tools: AWS (Certified Cloud Practitioner), Docker, Figma, Jest, Swagger, Cypress, Git, GitHub, Jira

Experience

Raytheon UK – Software Engineer

2022 – Present

- **Web App Design:** Designed and created efficient web applications, optimizing company functions.
- **Project Leadership:** Led design and front-end engineering, ensuring high-quality product delivery and direct alignment with product owners.
- **Cyber Research Initiative:** Initiated and extended a successful cyber vulnerability research project, showcasing analytical skills and attention to detail.
- **Full-Stack Proficiency:** Developed secure APIs and stylish, accessible UIs for multiple full-stack applications, specializing in React, Mongo and AWS with testing using Jest and Cypress.
- **Agile Value Delivery:** Implemented agile methodologies while demonstrating outstanding teamwork for continuous value delivery, particularly for company-used applications.

Education

University of Leeds – Masters in Mechanical Engineering

2018 – 2022

Grade: **First Class**

- Led team project to design, simulate and manufacture a novel flexible petri dish for cellular straining, focusing on commercialization and precision.
- Independently developed a viable robot waiter through robotics design and simulations (Webots).
- Advanced algorithm and systems modelling (Matlab) to engineer and build a powered Mars rover.

A-Levels

2016 – 2018

Grades: Maths **A*** • Further Maths **A** • Physics **A** • Chemistry **B** • EPQ ("Effects of Super-AI") **A**

Projects

PTO Tracking Web Application

- Built a full stack application to request and track holidays on commercial level.
- Led a small team using agile working methods to deliver continuously.
- React Typescript, NodeJS and MongoDB were used for the application, along with AWS services (Cognito, EC2, CDK) for authentication, hosting and infrastructure.

Mars Rover

- Designed and manufactured an electric buggy to race over a planetary terrain course.
- Using CAD and Matlab to optimize suspension systems.
- Precise manufacturing with technical drawings to ISO standards.
- Top 5% of the year based on metrics of speed, creative design and manufacturing integrity.

Film Stats App

- Utilized TMDB's APIs to create a social media site based on films.
- Handled large datasets to maintain smooth user interaction and create streamlined features.
- Created custom SCSS components to provide a responsive and innovative user experience.