

# Joji Kuriyathan Joy

✉ jojikj7077@gmail.com ☎ 07407841025 🔗 [linkedin.com/in/joji-k-joy](https://www.linkedin.com/in/joji-k-joy) 📄 [joji-kuriyathan-joy.github.io/portfolio/](https://joji-kuriyathan-joy.github.io/portfolio/)

## SUMMARY

As a dynamic **Software Developer** with a robust background in **Java, .NET, and Python**, I bring a rich blend of practical experience and academic prowess. My professional journey, marked by a pivotal role at **Cygnus Softwares Inc.**, showcases my adeptness in **web technologies** and a flair for innovative solutions. My expertise extends to cutting-edge areas like **AR and machine learning**, demonstrating my adaptability and **forward-thinking** approach. Currently enhancing my skill set with a **Master's in Computing**, I'm engaging in impactful **healthcare projects with the NHS**, underscoring my commitment to leveraging technology for meaningful advancements.

## EXPERIENCE

### Software Developer

Cygnus Software's Inc

June 2019 – October 2021, CBE, India

- Developed **RESTful APIs using Python, Flask, Django and MongoDB**, optimized server-side code to improve **response times by 50%**, and built fault tolerant and scalable applications to support business needs.
- Led the development and implementation of a comprehensive document automation system using **.Net Framework and Java**, significantly **enhancing the efficiency of preparing, publishing, and distributing business documents**. Innovated with advanced templates and custom forms to ensure consistent, error-free data capture, streamlining the process across various business units.
- Designed and **integrated complex workflow** solutions within **Ultra Documents** to optimize internal and external document distribution. Implemented features for electronic approvals, signatures, and automated alerts, using **.Net Framework and Java**. This resulted in over **50% reduction in document creation and processing time**, improving cross-team collaboration and client engagement.
- Effectively implemented **automated unit-testing and debugging practices** to ensure the highest level of quality assurance.
- Used **Git** for version control, collaborated with teams to **develop REST APIs** and improve application performance.

## PROJECTS

### DataForte Web app – Dissertation Project

Teesside University • <https://afterdarkcreation.pythonanywhere.com/> • September 2023 – Present

- Orchestrated the development of a web application for database backup and recovery, incorporating **AI algorithms to enhance data integrity** and streamline recovery operations. Resulted in a **40% improvement in data recovery speed and a 30% increase in data accuracy**.
- Deployed **AI-driven** solutions to automate backup schedules and predict data loss scenarios, leading to a **25% reduction in downtime and a 35% decrease in data loss** incidents for our clients.
- Developed a user-friendly database management interface using a diverse tech stack including **Python**, contributing to a 50% increase in operational efficiency and a 20% improvement in client satisfaction rates due to enhanced accessibility.
- Refined the **web application** to handle high-volume **databases efficiently**, achieving a 60% increase in processing speed and a scalability enhancement that supports 2x the previous data capacity without compromising performance.

### NHS Family Invoice App – Internship

Teesside University • [github.com/joji-kuriyathan-joy/Nhs-Family-Invoice.git](https://github.com/joji-kuriyathan-joy/Nhs-Family-Invoice.git) • January 2023 – May 2023

- Engineered a **mobile application** transforming traditional "Family Voice – Carers Diary" forms into a digital health diary, leading to a **70% increase in timely and accurate health data** recording by caregivers in palliative care.
- Designed an intuitive daily entry feature using a 5-star rating system to record essential patient information such as pain levels, breathing quality, medication adherence, and nutritional intake.
- Incorporated advanced **data analytics** into the app, providing healthcare professionals with actionable insights, which contributed to a 30% improvement in patient care efficiency. This included the flexibility to add custom data fields, tailored questions, and corporate branding for various healthcare providers.

### Ultra Doc App

Personal Project • August 2022 – December 2022

- Engineered a streamlined interface enabling rapid creation and distribution of PDF documents, resulting in a **50% reduction in document preparation** time for users.
- Integrated features allowing users to personalize each document with a title, description, and date, enhancing document specificity and improving **user engagement by 40%**.
- Facilitated the integration of images into documents, either from the gallery or captured in real-time with the **device's camera**, increasing user convenience and boosting document customization by 35%.
- Developed a feature for embedding **real-time location snapshots** into documents, providing additional context and validation, which improved document authenticity verification by 25%.

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## EDUCATION

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### MSc. Computing with Advanced Practice

Minor in Machine learning (ML) • Teesside University • Middlesbrough, UK • 2024 • 3.0 GPA

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## CERTIFICATIONS

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### Full Stack Web Development with Flask

LinkedIn Learning • 2023

- Certified in **full stack development** enhanced **problem-solving skills**, as it involves understanding and integrating various components of a **web application**. This holistic understanding is beneficial for troubleshooting and improving application performance.

### Brainnest Python Development Industry Training

Brainnest • 2023

- Certified in Industry Training of 4 weeks (**20 hours + Individual Work**)

### Digital Transformation Program - Java Enterprise Apps with Devops

NIIT Limited • 2017

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## SKILLS

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Frontend: HTML, CSS, JavaScript, Bootstrap, jQuery

Backend: Python, Java, C#

Frameworks and Libraries : Flask, Django, LINQ, Newtonsoft, ASP.NET Core, JSE, Spring , Hibernate, MVC

Cloud Technologies : AWS, GCP, Firebase, S3

Databases: MySQL, PostgreSQL, Vertica, MongoDB

Testing and Integration : CI/CD, Software application testing, Performance testing, Automated testing

Other : Slack, Jira, Trello, Confluence, Mailchimp, SCRUM & Agile Methodology, Microsoft Excel, Google Sheets, GitHub, OAuth, Docker