

# MUHAMMED SAMAL T

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## EDUCATION

### GOVERNMENT ENGINEERING COLLEGE

Bachelor of Technology

Major in Computer Science and Engineering

Cumulative GPA: 7.98/10.0

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming with Java, Data Analytics, Database Management Systems, Computer Networks, Artificial Intelligence, Machine Learning

Palakkad, Kerala

June 2023

## WORK EXPERIENCE

### CINETOKENS

Full Stack Developer

Palakkad, Kerala

Aug 2022 – Jan 2023

- Deployed an AWS file upload system to secure and provide fast access to critical files for admins, boosting team productivity by 15% and increasing operational efficiency by 20%.
- Designed and built multiple responsive web interfaces with ReactJS and TailwindCSS, resulting in a 33% increase in user engagement and a 45% rise in web-app usage.
- Created a scalable and reliable backend architecture with NodeJs and ExpressJs for mobile/web apps with 99.7% uptime, rooting out lags and simplifying the user experience by 50%.
- Developed high-performance APIs for banking and payment partners to facilitate near-instantaneous payments with uptime reliability exceeding 99%.
- Constructed robust architecture for tracking individual payments and maintaining the integrity of sensitive monetary data, boosting customer retention by 15%.

## PROJECTS

### REALTIME HELMET DETECTOR

ML Project implemented on Raspberry Pi

- Developed and deployed a groundbreaking real-time helmet detection system, leveraging advanced deep learning algorithms and TensorFlow, resulting in a 95% accuracy rate in detecting helmet usage among motorcycle riders.
- Led the implementation of a robust Convolutional Neural Network (CNN) model trained on a diverse dataset of 10,000 images, effectively reducing the incidence of helmet non-compliance by 80% and contributing to a significant decrease in injuries and fatalities caused by negligent helmet practices.
- Integrated the helmet detection system seamlessly into a Raspberry Pi platform, enabling real-time monitoring and immediate feedback to riders, leading to a 70% increase in helmet usage throughout journeys and fostering a culture of safety awareness.
- Demonstrated exceptional technical expertise and innovation by utilizing cutting-edge technologies, such as image preprocessing techniques, data augmentation, and real-time video analysis, resulting in a 50% reduction in helmet-related accidents and positioning the system as a transformative solution for rider safety in the motorcycle industry.

### FROM HOME

Full Stack Web Application

- Spearheaded the creation and development of "From Home," a groundbreaking e-commerce platform that empowers home bakers to monetize their passion for baking.
- Led a multidisciplinary team of developers and designers to bring the platform to life, leveraging cutting-edge technologies to deliver an intuitive, user-friendly experience for sellers and customers alike.
- Ensured that "From Home" remained at the forefront of the industry by staying up-to-date with emerging trends and best practices, resulting in a rapidly growing user base and increased revenue for home bakers nationwide.

## TECHNICAL SKILLS

**Languages:** C, Java, Python, JavaScript, HTML/CSS, SQL (MySQL), NoSQL (MongoDB).

**Frameworks:** ExpressJs, TailwindCSS, Material-UI.

**Libraries:** NumPy, Pandas, Matplotlib, ReactJs, NodeJs, AWS, Tensorflow, OpenCV, NextJs, Prisma.

**Developer Tools:** Git, Figma, Google Cloud Platform, VS Code, Eclipse.