Abisheek Kumar

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EDUCATION

KCG COLLEGE OF TECH
B.E in Electronics and Communication Engineering
2017 - 2021 | Chennai, IN

LINKS

LinkedIn:// **Abisheek's LinkedIn**

SKILLS

PROGRAMMING
• **Python**, Javascript
• Object Oriented Programming

FRAMEWORKS AND LIBRARIES
• **Web development** - Django, Flask
• **Data Analysis**: Pandas, NumPy, Matplotlib, Seaborn
• **API**: REST APIs, OAuth

MOBILE TECHNOLOGIES
• React Native, Realm, Redux
• Push Notifications, TailWind CSS

WEB TECHNOLOGIES
• HTML,CSS, AJAX,
• JQuery, Bootstrap

IOT TECHNOLOGIES
• MQTT, OPC-UA, EtherNet/IP, NFC
• SPI, UART, I2C

DATABASE TECHNOLOGIES
• MySQL, SQLite, PostgreSQL
• MongoDB

CLOUD
• **Microsoft Azure** - App Gateway, VMs, App Service, DevOps
• **Linode** - Compute Instances, Node Balancer, SSH configuration

DEVOPS
• CI/CD Pipelines (Github Actions)
• Version Control, Containerization
• Scripting and Automation (Bash, Python, Powershell)

PUBLICATIONS

• DevOps Dynamics: //Amazon link
• Cataract Detection using DCNN: //Springer link

EXPERIENCE

SOFTWARE DEVELOPER
RADIXLINK INC. | JULY 2023 - PRESENT
• Lead the design and development of cross-platform mobile applications using React Native.
• Architect and Design back-end REST API using Django to facilitate efficient data communication and interaction between front end and back-end components.
• Collaborate with team members to generate and implement innovative ideas, enhancing product features and user experience.
• Conduct comprehensive app testing and troubleshooting to maintain optimal performance and functionality.

ELECTRONICS DESIGN ENGINEER
MEL SYSTEMS AND SERVICES LTD. | JUNE 2021 - JULY 2023
• Designed and developed dashboards, web apps and desktop applications for monitoring, configuring and controlling the IOT devices.
• Designed and coded new software or modified existing software to add new features.
• Developed and performed operational, maintenance, and testing procedures for IOT products, components, equipment, and systems.

PROJECTS

CATARACT DETECTION USING DCNN
Python | Machine Learning | Deep Learning | DCNN
• Developed a cataract severity detection application leveraging a Deep Convolutional Neural Network (DCNN) based on GoogleNet architecture.
• Utilized convolutional, activation, fully connected, SoftMax, inception, and Max pooling layers for optimal accuracy and efficiency.
• Achieved a peak accuracy of 86.9% during training. Demonstrates potential for broader disease detection applications.

FOOD DELIVERY MOBILE APP
React Native | JavaScript | Redux | TailWind CSS
• Crafted a versatile cross-platform mobile app using React Native, featuring seamless theme switching and an intuitive interface.
• Empowers users with easy navigation for identifying restaurant locations.
• Enables precise calculations for adding and removing food items from the cart.

CRYPTO KEY GENERATOR
Python | RSA Algorithms | OOPS
• Developed a Python-based cryptography application proficient in generating robust public and private key pairs.
• Implemented advanced cryptographic techniques to ensure secure encryption of sensitive data.
• Utilized industry-standard encryption algorithms to safeguard sensitive information from unauthorized access.