Archit Bubber

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Education

MS Ramaiah Institute of Technology   Bangalore, India
Bachelor of Engineering in Computer Science | GPA: 8/10   August 2022
Courses: Algorithms and data structures, Object oriented design and programming, Operating Systems, Introduction to Computer architecture, Database Management Systems, Introduction to Cloud Computing, Introduction to Computer Networks

Experience

Quicken Software Technologies   Bangalore, India
Cloud Development Intern   Jan 2022 -June 2022
- Responsible for migrating and updating various different services with latest Gradle and SpringBoot version.
- Responsible for improving the existing email-template for Quicken Mails.
- Prevented extension of Subscription period beyond allowed limit by raising a new Exception

Skills

Languages: Java, C, Python, SQL, HTML, CSS, JavaScript, Node.js, React JS
Others : Bootstrap, Git, W3.css

Academic Projects and Research

Database management-
- Developed the frontend for MSRIT database management tool. Further also designed an algorithm for early detection of duplicate entry into the database to prevent error generation during insert
- Developed the update functionality which included updating the primary key and updating the access for databases based on department, faculty hierarchy.

Web Development Projects-
- Developed my Portfolio website using w3.css for responsive web designing and developed static website and hosted on GitHub link.
- Developed Live location tracking website TrackMeRide which provided real time location and speed. It used "MapMyIndia API" for displaying map and marker. Further React was used for updating the marker position without refreshing page.
- Developed using custom CSS for responsive web designing and Node.js in backend for processing requests, redirecting, and providing location data to frontend. The app was deployed using Heroku link.

Microprocessor Projects-
- Developed an Emergency Fall Detector wristwatch using mpu6050, NEO6M, GSM800a and Arduino LilyPad. Detected fall by calculating accelerometer and gyro value changes. Further, alerted about the accident to listed people by sending GPS coordinates to respond
- Developed a Maze Solving Robot as part of a robotics contest by using LRSB algorithm, and calculated path using discreet mathematics equations like LBL=S.
- Developed drone and airplane using Atmel as flight controller. The transmitter and receiver was built using Nrf24l01 with ranges up-to 1km and with minimum time consumption and max efficiency. Further used MultiWii source code for Flight Controller and custom tuned PID's for best stability and ack capability for live battery voltage monitoring and safety warnings.

Miscellaneous-
- Developed a Sudoku puzzle project using C.
- Developed an audio reactive keyboard lights script using Python.
- Developed an application using Python for programming Neopixel LED's to display custom graphics and images. The matrix can be generated as per user demand style/pattern.

Extra-Curricular and Others

- Active member of various community groups which educate under-privileged kids.
- Represented college at VTU south-zonal sports meet in 10km race.
- Core member and organizer of various treks as part of Nature's Club.
- Winner of State Level Bike Championship under 200cc category organised by KTM in 2017.