






Fozail Ahmed

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CAREER OBJECTIVE

Highly skilled and motivated Computer Science student seeking a Software Developer position, leveraging skills in software development, Java, React.js, and SQL. Dedicated to technology and driven to solve complex problems, I strive to contribute to organisational success through innovative solutions and collaborative teamwork.

EDUCATION

City Engineering College

[Bachelor of Technology - Computer Science and Engineering]; CGPA: 9.17/10 Bangalore, India
August 2019 - June 2023

Relevant Courses and Grades: Discrete Mathematical Structures (S), Design and Analysis of Algorithms (A), Advanced Calculus and Numerical Methods (S), Object Oriented Concepts (A), System Software and Compilers (A), Computer Networks and Security (A), Computer Organization (A), Operating Systems (A), Big Data Analytics (A)

Grade: S - 10 (Outstanding), A - 9 (Excellent), B - 8 (Very Good), C - 7 (Good), D - 6 (Fair), E - 5 (Satisfactory)

Dayananda Sagar Institutions

[Higher Secondary Education - PCMC]; Percentage: 81.5% Bangalore, India
June 2017 - April 2019

Bishop Cotton Boys' School

[Primary Education - ICSE Science]; Percentage: 76.2% Bangalore, India
June 2006 - June 2017

INTERNSHIP EXPERIENCE

The Sparks Foundation

Data Science and Business Analytics Intern

Singapore [Remote]
October 2022 - November 2022

- Engineered and fine-tuned an advanced ML model for stock market prediction using Python, leveraging novel techniques in textual and numerical analysis to achieve an impressive 96% accuracy rate for SP BSE SENSEX.
- Conducted thorough data exploration and analysis on the IPL Dataset, uncovering 20+ actionable insights that informed business analysis and decision-making processes.
- Collaborated with 10+ peer interns, providing them with technical expertise and meaningful feedback resulting in a 95% success rate on their individual tasks.
- Demonstrated exceptional performance in both technical and non-technical areas, earning a letter of recommendation from senior leaders within the organization.

Varcons Technologies Pvt. Ltd.

Full Stack Web Development Intern

Bangalore
August 2022 - September 2022

- Developed and launched a state-of-the-art template photography website with highly responsive design, improving user experience on 90% of devices.
- Designed a responsive and user-friendly website using Django, Python, JavaScript, HTML, CSS, and Bootstrap, leading to a 35% increase in user engagement and 19% boost in photographer bookings.
- Led a team of four individuals to streamline development processes, reducing overall development time by 20% while maintaining high-quality standards.
- Executed comprehensive testing and integrated files to the server successfully which resulted in a 27% reduction in bug occurrences. 🌐 <https://simhac.pythonanywhere.com/>

PROJECTS

Wearable Device using AI and IoT for Assessment of Fetal & Maternal Well-being During Pregnancy

- Developed a wearable IoT device with embedded sensors to monitor real-time health vitals of pregnant mothers, utilizing IoT technology. [Feb '23]

- Integrated machine learning models for fetal heart rate classification and early detection of pregnancy risks like pre-eclampsia and gestational diabetes, leveraging sensor readings to enhance accuracy of assessments. [Mar '23]

- Built a web application with separate dashboards for mothers and doctors, providing easy access and interpretation of sensor data. Implemented real-time data visualization on the mother dashboard, offering clear and understandable presentation of readings. Integrated machine learning models on the doctor dashboard, enabling precise diagnosis and treatment recommendations for high-risk pregnancies. [Apr '23]

Tech Stack: Arduino, ThingSpeak, ML, Python, Django, JavaScript, Bootstrap, CSS, HTML

FlickFeed - Social Media Platform

- FlickerFeed, a user-friendly and responsive social media platform that facilitates instant sharing of moments and ideas through personalized posts. Increased user engagement by 20% through feature enhancements like adding, liking, sharing, editing and deleting posts while reducing page load time by 35%, optimizing overall platform performance.

- Implemented the front-end using React.js, the back-end with Node.js, and utilized MongoDB for data storage. Hosted and deployed the website on the Render platform, ensuring reliable and secure hosting, resulting in a seamless user experience across all devices. [Mar '23] 🌐 <https://flickerfeed.onrender.com/>

Tech Stack: React.js, Node.js, Express.js, MongoDB, Redux, Bootstrap

Automatic License Plate Recognition using Deep Learning

- Developed and deployed a cutting-edge object detection model with 92% accuracy, leading to an improvement of at least 15% compared to previous systems, resulting in invaluable vehicle intelligence.
 - Utilized OCR technology for automatic license plate recognition & integration into the web application increases efficiency by automating tasks such as license plate identification & reducing the need for manual intervention. [Sept '22]
- Tech Stack: OpenCV, TensorFlow, Python, Flask, JavaScript, Bootstrap, CSS, HTML

Fuse - Minigames

- Fuse is an engaging Android application featuring 6 modular minigames, providing an interactive user interface for immersive entertainment during leisure hours. Designed and implemented the application in Android Studio using Java and XML, while leveraging SQLite for efficient database integration.
 - Received positive user feedback, with an average rating of 4.1 out of 5, demonstrating the app's popularity and success delivering a seamless gaming experiences during moments of boredom. [July '22]
- Tech Stack: Android Studio, Java, XML, SQLite

INTERNATIONAL CONFERENCE PAPER

Wearable Device using AI and IoT for Assessment of Fetal & Maternal Well-being During Pregnancy

📅 26-05-2023
ICCSTAR

🔗 <https://www.researchgate.net/publication/371159293>

- Employed an integrated approach by designing and implementing an end-to-end solution for regular health monitoring of the mother and fetus during pregnancy.
- Integrated IoT device, machine learning models, and web application seamlessly to detect pregnancy-related issues, determine fetal heart rate accurately, and demonstrate exceptional real-time performance.
- Implemented machine learning models to predict and detect pregnancy health-related issues such as pre-eclampsia and gestational diabetes. Utilized Random forest classifier to achieve accuracies of 91% and 97% respectively, showcasing the effectiveness of the models in assessing pregnancy risks.
- Successfully classified fetal heart rate using ultrasound values and Support Vector Classifier. Achieved a remarkable accuracy level of 99.5% in fetal heart rate classification, indicating the robustness and reliability of the developed model.
- Received the best paper award at the ICCSTAR international conference. The paper has been accepted for publication in the esteemed journal IJERT.

CERTIFICATIONS

Full Stack Web Development with MERN Full Stack Project

[Udemy]

- Acquired comprehensive knowledge and understanding of MongoDB, Express, React.js, and Node.js, enabling proficiency in full-stack web development. Covered topics included database management, server-side development, front-end design, and integration of APIs.
- Successfully completed over 10 mini projects, showcasing practical implementation of the MERN stack, including building and deploying dynamic web applications to production environments. [Mar '23]

Java Full Stack Development - CSR Training 2023

[Kodnest]

- Assimilated comprehensive understanding of Java and core programming concepts, including object-oriented programming, data structures, collections, exception handling, and JDBC.
- Acquired expertise in SQL database management, encompassing querying, normalization, and data manipulation. Gained proficiency in web technologies like HTML, CSS, and JavaScript, enabling the development of dynamic and interactive web applications. [Present]

TECHNICAL SKILLS

Languages	Java, Python, JavaScript, C, C++, SQL, HTML, CSS
Framework & Libraries	React.js, Node.js, Express, Django, Bootstrap, Pandas, Flask
Tools	GIT, MySQL, MongoDB
Platforms	Linux, Web, Windows, Android

HONORS AND AWARDS

Award of Academic Excellence

[City Engineering College]

For ranking among the top 3 students out of 150+ students in the Computer Science department for each of the 8 semesters that have been completed. [May '23]

Blaze A Trail Winner

[BMSIT]

Winner of the paper presentation competition at B.M.S. Institute of Technology and Management, competing against 25+ teams, for an IEEE format paper titled "Wearable Device using AI and IoT for Assessment of Fetal and Maternal Well-Being During Pregnancy" [Nov '22]

TECHNOVA-2K23 2nd Runner Up

[RRIT]

Achieved 2nd runner-up at TECHNOVA-2K23, a state-level project exhibition with 60+ teams at RRIT for the project "Wearable Device using AI and IoT for Assessment of Fetal and Maternal Well-Being During Pregnancy" [May '23]