



Abhishek M. Shastry K.

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Over the years, I have had the privilege of working on diverse projects that have expanded my horizons. My varied experiences, from developing robust backend systems to creating intuitive user interfaces, have equipped me with a holistic understanding of software engineering. I am open to new challenges and opportunities that allow me to continue exploring the field of web and full-stack development.

EDUCATION

The University of Iowa (Ulowa)

Iowa City, IA, USA

Master's in Computer Science

Aug. 2023 - May 2025

Alva's Institute of Engineering and Technology (AIET)

Mangalore, KA, India

B.E. in Electronics and Communication Engineering, CGPA: 8.74/10

Aug. 2017 - Aug. 2021

EXPERIENCE

HealthEdge Software

Bangalore, KA, India

Software Engineer (Student Intern for first six months)

Jan. 2021 - July 2023

- Played a pivotal role in a Kubernetes project, focusing on the containerization of HealthEdge products, which significantly enhanced deployment efficiency and scalability
- Actively involved in Kanban-driven software development, managing and prioritizing Kanban tickets to ensure efficient project flow
- Worked on automated branch creation through Jenkins job to streamline the project's release process, enhancing workflow efficiency
- Served as a mentor to HealthEdge interns
- Performed tasks such as handling NullPointerException bugs (bringing the number down from over a hundred to zero), reducing Cognitive Complexity, and writing unit tests to improve code coverage during my internship

National Remote Sensing Centre

Hyderabad, TS, India

Student Intern

Jan. 2020 - Mar. 2020

- Designed a 3D satellite-globe model using Autodesk (Fusion 360)
- Based on the design, a functional physical globe and satellite model was built
- Orchestrated the motion of the Earth, polar satellite, and geostationary satellite through motor control and an Arduino Uno setup

PROJECTS

Micro Weather Station [[mws-project.netlify.app](#)]

Mangalore, KA, India

Alva's Institute of Engineering and Technology

Jan. 2021 - May 2021

- Built a micro weather station that measures various environmental variables and uploads the measured data into a server for processing
- The system was built using a Raspberry Pi which interfaced various sensors to measure temperature, humidity, soil moisture, ultraviolet radiation, air pressure, and air quality
- Built an android mobile application that gives users the ability to perform real-time analysis on processed data from multiple micro weather stations. The application is published in Amazon Appstore: [MWS Weather App](#)

Automatic detection of various emotions from textual comments and feedback

Mangalore, KA, India

TCS iON remote internship project

Oct. 2020

- Developed a machine learning algorithm utilizing various text classifiers and preprocessing techniques to detect different types of emotion contained in a collection of English sentences or a large paragraph
- Evaluated and compared the effectiveness of multiple vectorization strategies (Count Vectorizer and TF-IDF Vectorizer) with multiple models (Multinomial Naive Bayes and Logistic Regression)
- Reported performance metrics such as Cross-Validation score, Accuracy, Precision, Recall, and F1 Score

SKILLS

Programming: Java, C, C++, Python, JavaScript, HTML/CSS

Developer Tools: Git/GitLab, IntelliJ IDEA, Oracle SQL Developer, Oracle WebLogic Server, Arduino IDE, Spring Boot, Hibernate, Apache Camel, Apache ActiveMQ, JPA, SOAP, REST Web Services

Operating Systems: Windows, Linux, CentOS, Raspberry Pi OS

Miscellaneous: Kubernetes, Docker, Embedded C, Scikit-learn, Natural Language Toolkit, Shell (Bash/Zsh), Jenkins, Jira, SonarQube, Gatling, Microsoft office

ACHIEVEMENTS AND CONTRIBUTIONS

2022 Recognized as a Quarterly Star Performer at HealthEdge | 2019 Semi-finalists in India Innovation Challenge Design Contest organized by Texas Instruments | 2021 Organized workshop on Python for university freshers under Envision Lab, AIET |