Abhishek M. Shastry K.

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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 opportunities that allow me to continue exploring the field of full-stack development.

EDUCATION

The University of Iowa (UIowa) — Iowa City, IA, USA
Master's in Computer Science, CGPA: 3.77/4.00 — *Aug. 2023 - May 2025*

Alva's Institute of Engineering and Technology (AIET) — Mangalore, KA, India
B.E. in Electronics and Communication Engineering, CGPA: 8.74/10.00 — *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
- Worked on automated branch creation via Jenkins, achieving a 75% reduction in release process time and enhancing workflow efficiency
- Actively involved in Kanban-driven software development, managing and prioritizing Kanban tickets to ensure efficient project flow
- Served as a mentor to HealthEdge interns, imparting comprehensive product knowledge and technical guidance
- 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
- Improved measurement accuracy by 20% and cut overall operational costs by 15% compared to existing Raspberry Pi-based micro weather stations. This was achieved through a specialized printed circuit board and cost-effective high-accuracy sensors
- 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)
- Achieved robust performance using Count Vectorizer and Logistic Regression model, considering key evaluation metrics

SKILLS

Programming: Java, C, C++, Python, JavaScript, HTML/CSS
Developer Tools: Git/GitLab, IntelliJ IDEA, Oracle SQL Developer, Oracle WebLogic Server, Spring Boot, Hibernate, Apache Camel, Apache ActiveMQ, JPA, SOAP, REST Web Services
Operating Systems: Windows, Linux, CentOs, Raspberry Pi OS
Miscellaneous: Kubernetes, Docker, Shell (Bash/Zsh), Embedded C, Scikit-learn, Natural Language Toolkit, Jenkins, Jira, SonarQube, Gatling

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 |