Abhishek M. Shastry K.

Iowa, USA

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Education

Alva's Institute of Engineering and Technology (AIET)
Mangalore, India

B.E. in Electronics and Communication Engineering
Aug. 2017 - Aug. 2021

- Graduated with Distinction and a cumulative GPA of 8.74/10.00

Poornaprajna College
Udupi, India

Pre University Education in Science (12th Grade)
July 2015 - Apr. 2017

- Graduated with Distinction and a score of 538/600 (89.67%) in Second PUC Examination
- Specialised in Physics, Chemistry, Maths, and Computer Science

T.A. Pai EMHS
Udupi, India

Secondary Education (10th Grade)
May 2012 - Apr. 2015

- Graduated with Distinction and a score of 582/625 (93.12%)

Experience

HealthEdge
Bangalore, India

Software Engineer
July 2021 - July 2023

- Worked on automated branch creation through Jenkins job using shell script on HealthEdge's *HealthRules Portal Integration Kit* product
- Upgraded WebLogic and performed many major bug fixes on HealthEdge's *HealthRules Payor* product
- Mentored two interns during their internship at HealthEdge
- **Tech Stack:** Java, Kubernetes, Docker, Spring Boot, Hibernate, Apache Camel, JPA, SOAP and REST Web Services

HealthEdge
Bangalore, India

Student Intern
Jan. 2021 - June 2021

- Acquired skills in Java programming, JUnit testing, Apache Maven for building projects, WebLogic to deploy the project, and Jenkins to monitor the build
- Familiarised with various HealthEdge products' codebase
- Performed tasks such as handling NullPointerException bugs, reducing Cognitive Complexity, and writing unit tests to improve code coverage

National Remote Sensing Centre [video demo]
Hyderabad, India

Student Intern
Jan. 2020 - Mar. 2020

- Designed a 3D satellite-globe model using Autodesk (Fusion 360)
- Based on the design, a physical globe and satellite model was built
- The motion of the model earth, polar satellite, and geostationary satellite was controlled using motors and Arduino Uno setup
- **Technical Skills:** Embedded C, Arduino IDE

Envision Lab, AIET
Mangalore, India

Student Intern
July 2019

- Used embedded C programming to interface Arduino UNO with various sensors such as ultrasonic sensor, temperature-humidity sensor, digital temperature sensor, gas sensor, and capacitive soil moisture sensor
- Used MicroPython to interface ESP32 microcontroller with sensors such as temperature-humidity sensor and digital temperature sensor
- Built an automatic ball shooter that shoots the ball into a hoop placed at an unknown distance in front of it
- **Technical Skills:** Embedded C, Arduino IDE, MicroPython, uPyCraft IDE

Projects

Micro Weather Station [project website]
Mangalore, 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
- An android mobile application was developed that lets users analyze the processed data from multiple micro weather stations in real-time
- The application is published in Amazon Appstore: MWS Weather App
- **Technical Skills:** JavaScript, React Native, Python, Raspberry Pi OS, Git

Automatic detection of various emotions from textual comments and feedback

TCS iON remote internship project

Mangalore, India

Oct. 2020

- Developed a machine learning algorithm using multinomial Naive Bayes classifier and logistic regression to detect different types of emotion contained in a collection of English sentences or a large paragraph
- Reported performance metrics such as Cross-Validation score, Accuracy, Precision, Recall, and F1 Score
- **Technical Skills:** Python (scikit-learn), Natural Language Toolkit

Automatic Ball shooter

Envision Lab, AIET

Mangalore, India

July 2019

- An ultrasonic sensor interfaced with Arduino Uno was used to track the distance of the hoop from the ball shooter
- For a fixed launch velocity, the angle of the launcher was calculated using the trajectory equation
- A servo motor was used to set the calculated launch angle
- **Technical Skills:** Embedded C, Arduino IDE

Skills

Programming	Java, C, C++, Python, JavaScript, HTML/CSS, SQL
Miscellaneous	React Native, Git/GitLab, Embedded C, MicroPython, MATLAB, Linux, Shell (Bash/Zsh), Raspberry Pi OS, Arduino IDE, uPyCraft IDE, Xilinx ISE, Microsoft office

Activities

2022	Recognized as a Quarterly Star Performer at HealthEdge	*India*
2019	Semi-finalists in India Innovation Challenge Design Contest organized by Texas Instruments	*India*
2021	Organized workshop on Python for university freshers under Envision Lab, AIET	*India*
2018-2021	Participated in competitions like e-Yantra, KPIT sparkle, and various hackathons	*India*

Personal Details

Full name	Abhishek Manohar Shastry Kuraya
Date of birth	October 21, 1999
Nationality	Indian
Languages	English (Fluent), Hindi (Basic), Kanada (Native language) and Tulu (Native language)
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