

# MUSTAFA ARIWALA

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## EDUCATION

### SHRI G.S. INSTITUTE OF TECHNOLOGY & SCIENCE

*Bachelor of Technology in Computer Science*

Indore, India

Jun 2019 – Jun 2023

- Core modules learned during study involve fundamentals of Artificial Intelligence, Database Management Systems, Machine Learning, fundamental and advanced concepts of Data Structures and Algorithms, Cloud Computing and Data Mining.
- Other technologies and skills include Web Development (Back and Front End), Big Data Processing Technologies, Object Oriented Programming, and Computer Networks.
- Part of the institute's "Computer Club SGSITS" aimed at enhancing peers' programming skills, organizing inter-college workshops, and coding competitions.

### UNIVERSITY OF EUROPE FOR APPLIED SCIENCES

*Master of Science in Data Science*

Potsdam, Germany

Mar 2024 – Mar 2026

- Newly enrolled into this university to pursue my master's and gain further knowledge, skills and expertise in the field of Computer Science.
- Core modules include Decision Support Systems, Data Analytics, Data Engineering, Data Visualization, and Machine Learning.

## PROFESSIONAL EXPERIENCE

### PERIWINKLE TECHNOLOGIES PVT. LTD.

*Junior Software Developer*

Pune, India

Mar 2023 – Jun 2023

- **Part of the Android Application Developers' Team:** Under a Senior Software Developer's supervision, I worked on multiple topics such as:
  1. Implementing Native Android Libraries,
  2. Machine learning image processing libraries leading to better object recognition in images and videos
  3. JSON parsing
  4. Worked with APIs allowing us to implement a news feed.
  5. Android Architectural Components leading to better optimization and code re-using.
  6. Bluetooth Technology that allowed us to create an instant messaging service.

### VERZEO

*Cybersecurity Intern*

Hyderabad, India

Mar 2023 – Jun 2023

- **Technology:** Learned various methods and skills pertaining to identifying security flaws, network attacks, and mitigation of network threats, threats that come with information posted online, and identity spoofing.
- Recommended improvements in security systems and procedures that led to better secured systems.
- Conducted security audits to identify vulnerabilities which led to more vulnerabilities being exposed leading to more patch work to better increase security of systems.
- Reviewed violations of computer security procedures and developed mitigation plans.

## CERTIFICATIONS/PROJECTS

### ACCIDENT DETECTION AND ALERT SYSTEM

*Lead Developer*

- Conducted lots of research and came up with the idea to develop a smart, life-saving motorcycle helmet that detects when a collision or an accident has already occurred using sensors placed on the helmet and using Bluetooth transmit that data to a smartphone application which would then send location co-ordinates of the collision site to relevant authorities and family members/close friends.
- The idea is to minimize the time spent to get to a victim as soon as possible and not rely on the passers-by, or if in a remote area it would take hours to even take notice, and provide these victims with urgent healthcare as soon as possible.
- Technologies used were Internet of Thing sensors and microcontrollers, C programming, Android Applications, and good old fashioned helmets. (Any helmet could be turned into these "smart helmets", so people won't have to buy a new one.)

### UDEMY

*Online Certification Courses*

- Python Pro 100 Days Bootcamp: Learnt the fundamentals of programming, advanced syntax, object-oriented programming concepts, web scraping, APIs, data visualization, and web development.

- Android 12 & Kotlin Masterclass: Learnt the fundamentals of Kotlin, Android, UI/UX components, XML, fragments, internet, intents, activities, Firebase Databases and geo-location modules.
- Django + React: Building a location-based real estate website utilizing a backend of Django and a front end of React, Material UI and React-Leaflet

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### SKILLS & PERSONAL

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**Languages:** German (intermediate), English (fluent), Hindi (proficient), French (basic)

**Computer Skills:** Python, React, HTML, CSS, Java, JavaScript, SQL, Kotlin, Android Application Development

**IT:** Office Package (Word, Excel, PowerPoint, Access), Figma, Linux, macOS, node.js, Jira, Google Workspace

**Content Creation:** Working for a [flight-sim based news website](#); I write articles, editorials, reports, and also am an senior editor helping my peers and newcomers to the website.

**Interests:** Cooking (esp. Italian cuisine), Flight enthusiast (aviation, flight simulators), traveling (traveled 9 countries)