

Ajay Narayanan

- 👤 7 years of experience in developing and maintaining Android applications, working with diverse teams across 2 countries, and with a master's degree in Robotics, Cognition, Intelligence specializing in machine learning with an emphasis on natural language processing.
- 💡 I love working on interesting problems and building products that people love to use. Outside of my professional life, I am also keenly interested in software development and machine learning. I always strive to take ownership of the work I do, and I also take leadership roles outside of the work environment. In my free time I like doing Improv Theatre and playing badminton.
- 👥 I love working in an environment where I can learn and grow, and I am always looking for opportunities to work with people and companies who are passionate about what they do.

Work

2022/06 – Present Working Student in Android Development

[Quartett Mobile](#), Munich

Kotlin Android AOSP Gradle Framework Development Dependency Injection JNI Testing Jetpack Compose

Worked on the developing and maintaining the communication framework for Communication between the Car and user devices, used by Audi, Porsche, Volkswagen and other car brands. In addition, worked on the development of the Android Auto app for managing Device pairings. Worked on the development of Simulator and Tester apps for the same. The team was Agile, and we followed Scrum methodology. Having to work with a large number of stakeholders, Including CARIAD and the Volkswagen Group, Communicating and Managing expectations was a key part of the role. Specific skills and technologies included:

- Multi-modular app development
- Managed complex build workflows using Gradle
- Dependency Injection using Koin
- Interfacing with native C++ code with JNI
- Writing and maintaining Unit and Instrumentation tests
- Jetpack Compose for UI development of simulator and tester apps
- Worked as part of an Agile team
- Balanced work at Quartett and studies at TUM

2017/07 – 2022/04 Member of Technical Staff (Android Developer)

[Zoho Corporation](#), Chennai, India

Java Kotlin Android Gradle Testing Git Bash

Worked as developer for Zoho Creator, a low code application development platform for small and medium businesses. Implemented and maintained key features of the app such as the blueprint based automation flow, The caching of reports, the error and feedback flow, print and export flow, and various reports including Calendar, Timeline, Kanban, and Map reports, in addition the List type reports. In addition I also worked on maintaining the SDK of our application for third party developers. I also handled Internationalisation and took statistics for the app, both tasks which I automated using python and shell scripts. Eventually became in charge of handling the Reports and Base modules of the app. Also worked on large scale changes to the code-base including modularization of different components of the app, migration from Java to Kotlin, and large scale performance improvements. My time at Zoho also helped me understand the business and automation needs of a variety of customers.

- Multi-modular app development
- Took ownership of 2 modules within the product
- Designed complex UIs for the Reports Module
- Migration of codebase from Java to Kotlin
- Worked with multiple teams and stakeholders to deliver features on time
- Worked on large scale performance improvements
- Automated tasks using Python and Shell scripts

Contact

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Basic Information

📍 Munich, Germany
🏠 Kerala, India
🗣️ English (Native/Bilingual Proficiency)
German (B2 Niveau)

🐙 [GitHub](#)

Other Roles and Achievements

👤 Project Co-ordinator, RoboCET

2014 – 2017

RoboCET is CET's official robotics club. RoboCET conducts classes, project expos, and workshops in different colleges on various aspects of robotics, and also encourages its student members to create innovative projects in robotics and automation.

- ▶ Conducted workshops and classes at different colleges
- ▶ Bionic Arm - A robotic hand that imitates its human's movements using flex sensors
- ▶ Reactive LED Table - An LED array that reacts to nearby objects and can be used as a touchless screen
- ▶ Quadcopter and its Tuning - A quadrotor aerial vehicle that can be used for various applications including photography, surveillance, etc.
- ▶ Line Follower Robot - A robot that tracks a given path marked on the ground
- ▶ Gesture controlled robot - A robot that is wirelessly controlled by hand gestures

👤 Chairperson, IET

2014 – 2016

Chairperson of the IET CET, which is an active student chapter of the Institution of Engineering and Technology, which engages in the training and education of the students of CET in all fields of Engineering and Technology.

- ▶ Conducted the IET CET Innovation Challenge '16
- ▶ Conducted workshops on various technologies like Arduino for freshmen
- ▶ ASTER Sensor Network - A sensor network consisting of nodes that read atmospheric variables and uploads them to an online database, where it can be displayed in real time (in association with IIITM-K)
- ▶ IOT Waterflow meter - Updates water usage statistics onto the internet

🌟 Others

- ▶ Finalist in the TUM.ai Makeathon 2022, for our Android App "Snax"
- ▶ Volunteered as a Math teacher with Make a Difference, a youth driven, non-profit organization working to

Education

2022/04 – Present

M.Sc. in Robotics, Cognition, Intelligence

Technical University of Munich, Munich, DE

Python Machine Learning NLP GNNs AI LaTeX Zotero Figma UI/UX

Master's in Robotics, Cognition, Intelligence, mainly focusing of Machine Learning and Artificial Intelligence. I did my Seminar on the Fundamentals and Applications of Graph Neural Networks, specifically on Multi-Hop Reading Comprehension approaches using GNNs. Did a Lab Project on Graph-based Problem Solving methods using LLMs. Writing my thesis on the Construction and Evaluation of Constructed Languages using LLMs. Have taken course on Machine Learning, Deep Learning, NLP, AI, and Robotics. As part of my coursework, I also took the Business Plan Basic Seminar, where I also worked with UI/UX Design for a concept mobile app, "BHOT", a platform for short term seat reservations in restaurants and bars.

ensure equitable outcomes for children in orphanages and street shelters.

- Led the Improv Theatre group and managed Social Media for AcTUM, TUM's theatre club.

2011/04 – 2015/03

B.Tech. in Electrical and Electronics Engineering

College of Engineering, Trivandrum, Kerala, India

Robotics C C++ Java Control Systems

During my time at CET, in addition to my coursework, I was also involved in a variety of activities including the college Robotics Club, RoboCET, and the Institute of Engineering and Technology (IET). I was the Project Co-ordinator for RoboCET, where I conducted workshops and classes on robotics, as well as be part of various robotics projects. We also taught basic programming courses to non CS students. I was also the Chairperson of the IET CET, where I also conducted the IET CET Innovation Challenge '16.