

Akshay Praveen Nair

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Area of Interest

Computer Networks, Data Science, Natural Language Processing, Image Processing, Open Source, Internet Architecture, Computer architecture, Neuroscience.

Education

- 2019–2023 **Bachelor of Technology, Computer Science and Engineering**, Amrita Vishwa Vidyapeetham, Kollam, Kerala, India.
- 2017–2019 **12th Grade, Saraswathi Vidyanikethan**, Kochi, Kerala, India.
- 2016–2017 **10th Grade, Bhavan's Varuna Vidyalaya**, Kochi, Kerala, India.

Work Experiences

- Dec 2019– **KDE SoK'20, Developer Intern**, KDE.
- Feb 2020 **Supervised by:** Carl Schwan
- Developed a completely new website for the KDE application called Umbrello as a part of the summer program of KDE for students. Successfully ported the previous PHP website to a modern Jekyll static website builder with Markdown supported blogs.

Open Source Involvement

- Jan 2021– **OpenWorm Foundation(INCF)**, Developer.
- Present Currently working for the 4D reconstruction of axolotl embryos early development stages. This will allow us to create an atlas of the embryo's outer surface, which in some species (e.g. Axolotl) enables us to have a novel perspective on neural development. The source data consists of nine images per sample from different points of view, which will be projected onto the surface of a virtual sphere. This will allow us to view the surface either continuously or in a montaged fashion.
- Dec 2019– **OpenStack**, Foundation memeber/ Contributor.
- Present Active member, contributor and developer with OpenStack, a software platform for cloud computing, mostly deployed as infrastructure-as-a-service, whereby virtual servers and other resources are made available to customers.
- Nov 2019– **KDE**, Developer.
- Present Active member, contributor and developer with KDE, a global free software community that develops desktop applications and environments built on top of the Qt framework. Was mainly involved in contribution to the application called Kirogi and some websites of KDE
- July 2019– **amFOSS**, Developer, Mentor.
- Present amFOSS is a student community focused on contributing to Free and Open Source Software and mentoring students to achieve excellence, since 2006.

Projects

NaWaB, Python Telegram Bot.

NaWaB is a bot which shares all sorts of information regarding Computer Networks scraping twitter content. It sends the tweets to the telegram user with view and retweet option. **Source Code:** <https://github.com/Team-SYNACKd/NaWaB>

Raag, Music player made using Flutter.

Raag is a music app made using Flutter framework which will let us download audio from youtube songs also lets us play songs from our own device and share playlists to other users. **Source Code:** <https://github.com/raag-music/raag>

amFOSS.in, Backend CMS using Django framework.

Worked on the backend code of CMS made using Django. Added events model and also integrated a Discord bot(Ch0wikidhar) using the REST API which would send messages to the desired group after fetching data from CMS. **Source Code:** <https://github.com/amfoss/cms> **Live at:** <https://amfoss.in/>

Workshops/Sessions

Introduction to intermediate git, Amrita University, Amritapuri.

Took a session about different git commands and how to use them as a part of the Hacktoberfest 2020 to give them a head start in the open source world

Conferences and Hackathons

- Runners up in **Gov-TechThon 2020**, a virtual hackathon organized by IEEE in collaboration with National Informatics Centre(NIC-India), MeitY, Government of India and Oracle from 30th October 2020 to 1st November 2020.
- **Devfolio InOut hackathon**, 27 November 2020 | Virtual Event.
- **Akademy '20 KDE**, Invited Attendee, September 2020 | Virtual Event.
- **conf.KDE.in '20**, Invited Speaker, January 2020 | Maharaja Agrasen Institute of Technology, Delhi, India.

Technical Skills

- **Programming skills:** Proficient in C, C++, Java, Python.
- **FrameWorks:** Qt, Django, Bootstrap, Flutter, ReactJs.
- **Platforms:** Windows, GNU/Linux.
- **Web:** HTML, CSS, JavaScript, JQuery.
- **Tools:** GIT, SVN, Mercurial, LATEX.

Languages

- English, Hindi, Malayalam

References

- **Vipin Pavithran** (vipinp@am.amrita.edu)
Assistant Professor of cybersecurity and networks, Amrita Vishwa Vidyapeetham, Kerala, India