Abhijeet Viswakumar

✉ abhijeetviswa@gmail.com | ⌨ abhijeetviswa | in abhijeetviswa | ☎ +91 807 820 4438

EDUCATION

BITS PILANI

B.E. Electronics and Instrumentation Engineering
July 2022 | Hyderabad, India
CGPA: 8.29/10

AMRITA VIDYALAYAM

CBSE Class XII, 95.8%
March 2017 | Palakkad, India

SKILLS

PROGRAMMING

Proficient
• Python • Java • Kotlin • C • Bash

Familiar
• SQL • C++ • Typescript

AWS

• Lambda • DynamoDB • ECS • Fargate • EC2 • CDK

TOOLS & TECHNOLOGIES

• Linux • Django • Android • Docker • REST • Postman

ABOUT ME

I am a passionate software engineer with hands-on experience on backend and infrastructure development on AWS. I'm also an Open Source enthusiast and contributor.

EXPERIENCE

AMAZON WEB SERVICES (AWS) | Software Engineer

February 2022 - Present | Bangalore, India

Tech: Python, Typescript, EC2, Lambda, DynamoDB, Fargate

- Created a service to automatically parse maintenance emails and suppress relevant alarms. Resulted in reduced operational load and approx 5 fewer high severity tickets weekly.
- Reduced weekly effort spent on running manual and protacted regression tests by automating it. This reduced the time spent on the test from 24 man-hours down to 8.
- Worked on an easily deployable network virtualisation product that was integrated with automated network config CI/CD and regression testing pipelines. Ultimately reduced cost by replacing physical network labs.

ORACLE | Software Engineering Intern

June 2021 - July 2021 | Bangalore, India

Tech: C, Oracle Solaris

- Improved performance and accessibility of historical data by adding support for alternative data stores in the 'vmstat' command for Oracle Solaris.
- Worked on improving documentation and man pages for CLI tools.

OPEN SOURCE CONTRIBUTIONS

DJANGO | Python Web Framework
References: GitHub PRs

Tech: Python, Django

- Reported and fixed a release blocking bug related to concurrent select and update on tables. This fixed a previously undiscovered data corrupting bug.
- Fixed a bug related to redundant SQL queries being generated. This improved database performance when inserting new rows into tables.
- Improved Django codebase and documentation.

PROJECTS

SMARTCAMPUS | A Mobile app for a Smarter Campus
References: Play Store

Tech: Django, PostgreSQL REST, DigitalOcean

- Designed and built the backend for SmartCampus, a mobile service to order food from one's hostel room.
- 4000+ active student users placed orders and were notified for order pick-up.
- Gross transaction value over a year (2 semesters) was Rs 3.1 crore.

CMS-ANDROID | Open Source Moodle Client for Android
References: | GitHub & Play Store

Tech: Android, Java, Kotlin

- Developed and maintained a 3rd Party Moodle client.
- Allows students to enrol to courses, access, be notified, and provided offline access to courses contents on their phone.
- Vital part of academic life with 4000+ active student users.