# ALBIN BABU VARGHESE

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## **OBJECTIVE**

Junior developer with a strong interest in Linux, Ubuntu, and open-source communities. Passionate about learning and improving, and motivated by the opportunity to work alongside and learn from experienced engineers. I am eager to take on challenges, contribute where I can, and steadily grow through mentorship, collaboration, and hands-on experience. My goal is not only to develop my technical abilities but also to support the success of the team and the wider open-source community through consistent effort and a willingness to learn.

#### **EDUCATION**

PG Diploma in Cloud Architecture & Administration, Seneca Polytechnic, Toronto Jan-Aug 2025 Relevant Coursework: Linux Administration, Data Structures, Algorithms, Terraform, Ansible, Docker, Kubernetes, AWS, Azure.

PG Diploma in Applied AI Solutions Development, George Brown College, Toronto

2024

GPA: 3.39

B.Tech in Computer Science, APJ Abdul Kalam Technological University, India

2018 - 2022

#### WORK EXPERIENCE

• Artificial Intelligence Intern, Kinectrics, Toronto, ON

May-Aug 2024

- Developed and debugged Python and Docker-based pipelines on Linux for anomaly detection models.
- Automated builds, testing, and container deployments using GitHub Actions CI/CD workflows.
- Diagnosed issues using logs, Bash scripting, and unit tests; improved system reliability and reproducibility.
- Participated in Agile ceremonies and collaborated with cross-functional teams to meet sprint goals.
- Developer Intern, Fleming, Remote

Jan-Jul 2023

- Implemented Android application features in Java/Kotlin with MVVM and Jetpack.
- Debugged API integrations and offline caching (Room, LiveData); improved performance and stability.
- Increased test coverage by 25% with JUnit and Espresso; maintained quality releases through CI/CD automation.

#### OPEN-SOURCE CONTRIBUTIONS

• uutils/coreutils — mv dangling symlink fix (Rust)

Implemented support for moving dangling symlinks into directories, matching GNU coreutils behavior. Added test coverage and validated via CI. PR #8064

• Microsoft Terminal — Triple-click Logical Line Selection

Fixed triple-click selection to include entire wrapped logical lines instead of only a single physical line. Enhanced selection logic, added tests, and validated across scrollback buffer. PR #18885

• LensKit — Mean Average Precision Module

Designed and implemented the MAP metric in lenskit.metrics.ranking, refactored rank computations, and added comprehensive tests achieving 88% coverage. PR #739

## • Bun — TextDecoder Fatal Option Fix

Corrected coercion logic for the fatal option in TextDecoder, ensuring proper boolean handling. Added and formatted tests for CI coverage. PR #19378

# • Matplotlib — Pie Chart Zero-Wedge Error Fix

Added error handling to raise ValueError when all pie wedge sizes are zero, preventing NaN conversion errors. Included targeted test coverage. PR #30019

## • Linux Kernel — Rust Documentation

Contributed documentation improvements to the Rust for Linux kernel project, enhancing clarity and usability for new contributors. Patch

#### **PROJECTS**

# • Food Delivery Backend (Go, MongoDB, PostgreSQL, Redis, Nginx, AWS)

Developed, tested, and debugged Go microservices; collaborated on architecture of domain services; configured Nginx for load balancing and SSL termination; defined health checks, logging, and monitoring; supported CI/CD pipelines using Docker and GitHub Actions.

## • Pokedex Object Detection App (Python, Streamlit, YOLOv5)

Built real-time object detection pipeline with YOLOv5; integrated PokeAPI for dynamic data retrieval; containerized with Docker; deployed on AWS ECS Fargate; automated builds and unit/integration tests with GitHub Actions.

#### VOLUNTEER EXPERIENCE

• Kerala Flood Relief Volunteer, Ernakulam, Kerala

Aug 2018
Gathered requirements for supply distribution, coordinated volunteer teams, and liaised with local authorities.

• Dialysis Patient Support Website, APJ Abdul Kalam Technological University Mar-May 2021 Defined technical specifications and developed a React/Node.js app; debugged server-side logic; integrated MongoDB and payment gateway for crowdfunding.

#### **SKILLS**

Programming LanguagesC, Rust, Python, Go, C++, Kotlin, Java, JavaScript, Bash,

**FALFX** 

Kernel/Systems Git, patch workflow, Linux debugging (gdb, strace), containers,

CI/CD

Cloud Platforms Ubuntu/Debian, AWS (EKS, ECS, RDS, S3), GCP, Azure

DevOps Docker, Kubernetes, Terraform, Ansible, GitHub Actions, Con-

tinuous Integration (CI), Continuous Delivery (CD)