Alwin T Varghese

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Karnataka, India | +91 944xxxxxxx | Github/alwinsDen | LinkedIn | alwintv5018@gmail.com

EDUCATION

P.E.S College of Engineering — Karnataka, India
Candidate for Bachelor of Engineering in Mechanical Engineering — *12/2020 - 05/2024*

WORK EXPERIENCE

Myntra — Bengaluru, India
Software Engineer 1 (React, React Native, Kubernetes) — *04/2025 - present*
- Collaborating with the Flipkart FSG UI team for development of applications for eKart, logistics wing of Flipkart and Myntra.
- Introduced new flows into eKart FieldX application for better customer experience and ease of order replacement/pickups.
- Upgraded app module to React 18, created pipeline with Docker image cache keeping build time less than 50 seconds.

Dashwave.io — Bengaluru, India
Front-end Engineer (ReactJS, AWS Cloudfront, Golang) — *06/2024 - 04/2025*
- Added AI Agent feature to existing workflow, allowing users to utilize the app build engine with extensible features of the AI model.
- Implemented Figma design-to-app feature from scratch, with a custom JSON-CSS parser to match Dashwave AI agent's requirements. Further, divided the parsed output into toggleable chunks to reduce AI execution times by nearly 50%.
- Upgraded the existing Android emulation device in the platform with a higher-resolution variant, achieving a visual gain of nearly 10%. Worked across multiple verticals involving Docker deployment, instance management, the Genymobile/scrcpy streaming library, and orchestration with Nomad.
- Developed WebRTC-based live iOS simulation streaming at nearly 60fps, deployed a private NPM library to manage UI elements.

Engineering Intern (ReactJS) — *03/2024 - 05/2024*
- Designed and executed automated CI/CD pipelines with GitHub Actions, including multi-environment deployments to AWS CloudFront, resulting in reductions of costs by nearly 90% compared to previous Vercel-based deployment.
- Led the integration of advanced configurations and platform-specific builds in frontend, optimizing iOS and Android deployment pipelines, with implementation of highly customizable workflows and in-browser bug fixing capability.

XR Open Source Fellowship 2023 (*The Hacedor (*MomentumX*) supported by FICCI and Meta)* — Remote
Project Partner (AR dev intern) (Three.js, React, Node.js, Chrome Plugin development) — *04/2023 - 07/2023*
- Selected as one of the top 1% from over 10,000 applicants across India for this prestigious fellowship program focused on emerging XR technologies with central focus on building for the Metaverse.
- Spearheaded development of key interactive features for the Virtual Fashion Galleria project, a 3D platform enabling real-time customization of metaverse-ready fashion items, effectively a tool for faster collaboration between fashion designers.
- Implemented WebGL-based rendering solutions using React-Three-Fiber that improved visualization performance.
- Developed responsive UI components with React that helped increase accessibility across multiple devices.

Clientell Technologies Private Limited — Remote
Front-end developer intern (Django, React, AWS) — *10/2021 - 04/2023*
- Implemented forecast changes feature for Rolled-up Sales Forecasting module, resulting in a 20% improvement in accuracy and reduction in forecasting errors. Developed and integrated Manual Sync functionality, reducing data synchronization time between Salesforce and organization's database by 30%.
- Revamped the company's main website and added Revenue Leakage, RevOps Team Size and Cost Benefit calculators.

PROJECT EXPERIENCE

MomentumX Fashion Galleria (Web-based 3D editor) github demo — *07/2023*
Created as part of the XR Open Source Fellowship 2023.
- AR experience for fashion designers, where they can upload a fashion 3D model, project into their environment with AR functionality, edit the parts to their will, change designs with custom materials, add annotation on the model itself and share their work with peers (Also created HD render feature). All this was built with *React Three Fiber, TypeScript* and *styled-components*. Made nearly 170+ commits to the project.

Remnant AI (Experimental CBT agent) github — *in-progress*
An AI agent assisting in navigating CBT
- An experimental application to test features of Koltin Multiplatform, uses a combination of OpenAI apis and jetpack compose's UI to support linux desktops and android mobile platforms. The planned application includes a chat interface for direct conversation with AI as it runs in the background, audio-visual experience to sooth user's mood and a logging feature to track user progress.
- Built using Kotlin, Ktor library, Jetpack Compose, ChromaDB for vector database and Python for AI agent.

SKILLS & INTERESTS

Computer: Javascript, Typescript, Node, React.js, Golang, Python, Nomad, Kotlin Multiplatform, Swift, SQL databases