Shivrudra Patil

Junior Software Engineer

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🔗 https://github.com/steamid1000   in linkedin.com/in/shivrudra-patil-bb60a7287

PROFILE

Innovative Android Software Engineer | Mobile Solutions Architect | Core Level Android Engineer
Passionate technologist with a deep specialization in Android native development, combining advanced mobile engineering skills with comprehensive full-stack capabilities. Leveraging a robust technical foundation to create high-performance, user-centric mobile applications that push the boundaries of mobile technology and user experience.

PROFESSIONAL EXPERIENCE

Junior Software Engineer   12/2024 – present
Tribesoft   Kolhapur, India
Current Development Ecosystem
- Possessing a comprehensive understanding of Android's Hardware Abstraction Layer (HAL) and core framework architecture, with in-depth knowledge of how these critical components interact to enable system-level functionality and hardware abstraction.
- Expertise in MVVM, Coroutines, Flow and all major android libraries used in advanced mobile development.
- Published App to the play store. (**Trucode** 🔗)
- Backend Technologies: SpringBoot development
- Containerization: Docker for scalable and consistent deployment
- Project Management: Jira, Trello for agile workflow and project tracking

Compiler Engineer Intern   07/2024 – 08/2024
CrossGL   Remote
Compiler Front-End Engineering in C++
Technical Expertise
- Developed high-performance lexer and parser using advanced C++ techniques
- Focused on creating efficient front-end compiler architecture
Key Technical Contributions
- Achieved 30% improvement in parsing speed
- Reduced tokenization time by 25%
- Implemented comprehensive error handling mechanisms
Technical Highlights
- Optimized lexical analysis and parsing processes
- Demonstrated expertise in low-level compiler design and implementation

Software Engineer   08/2023 – 05/2024
Infinite Kidz 🔗   Remote
Android Game Development with Unreal Engine
Technical Expertise
- Utilized C++ to implement custom game functionality in Unreal Engine
- Developed core game mechanics with advanced programming techniques
Key Technical Contributions
- Extended engine capabilities through sophisticated C++ solutions
- Debugged and optimized complex game system interactions
Technical Highlights
- Created custom game features leveraging Unreal Engine's C++ architecture
- Resolved critical technical challenges in game development

SKILLS

Mobile Development
MVVM, Dagger/Hilt, Retrofit, Glide, COIL,
RoomDB,
Kotlin Coroutines, Flow, Jetpack Compose.
AOSP, AIDL, HAL.

Backend Development
Node.js, Spring Boot

DevOps & Infrastructure
Docker, CI/CD, Version Control, Jira

Graphics & Low-Level Programming
OpenGL

Programming Languages
Kotlin, Java, C++ C17, Typescript

Database Technologies
MySQL, PostgreSQL, MongoDB

Computer Science Fundamentals
DSA (Data Structures and Algorithms), System
Design, Advanced OOPs Concepts

EDUCATION

M.C.A
KIT's IMER
Percentage: 70.12%

2024
Kolhapur

B.Sc Computer Science
Gopal Krishna Gokhale
Percentage: 73.92%

2022
Kolhapur

AWARDS

1st Prize in Inter College Coding Competition
Yashwant Rao Chavan College, Islampur

1st Prize in Coding Competition
Dr.Ghali College, Gadhinglaj.

SIDE PROJECTS

GUI Library 🔗
- Developed a robust GUI library using SFML in C++ to facilitate the creation of buttons, labels, and other GUI components.
- Implemented multi-level rendering through "scenes," each with its own unique layout and set of GUI elements.

AAB-APK-Builder-Bundletool 🔗
- Developed and launched an efficient console application using bundletool, reducing APK build time from AAB files by 40% and streamlining the workflow for developers.

Pong Game 🔗
- Developed pong game with a mordern look using the SFML library and C++.

CERTIFICATES

- AOSP Internals
- Android Jetpack Compose
- C++ QT 6 Core

SOFT SKILLS

Team Work
- Strong team player with proven ability to collaborate across diverse teams
- Adept at cross-functional project coordination
- Builds positive, productive working relationships

Leadership and Initiative
- Self-motivated and proactive
- Takes ownership of projects and deliverables
- Demonstrates initiative in proposing innovative solutions

Problem Solving
- Analytical and creative problem-solver
- Quick learner with adaptability to new technologies and challenges
- Systematic approach to troubleshooting and resolution
- Leadership and Initiative
- Self-motivated and proactive
- Takes ownership of projects and deliverables
- Demonstrates initiative in proposing innovative solutions