

Abhilash Rath

Website

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EDUCATION

- **Rajiv Gandhi Institute of Petroleum Technology** Amethi, India
Bachelor of Technology, Chemical Engineering; CPI: 7.27 Aug. 2017 – June 2021
- **Atomic Energy Central School** Mumbai, India
Intermediate: 88.6% & Matriculation: 90.6% Aug. 2013 – March 2017

EXPERIENCE

- **PhonePe** Bangalore, India
Software Engineer - App Core July 2024 - Present
 - **SPOF Sdk:** Designed and developed Android SDK for detecting, reporting and recovering from SPOF (Single point of failure) situations across the PhonePe App. The sdk has 99% test coverage. The sdk is aimed at solving 5M+ crashes happening due to db issues and helping flows identify SPOF situations to improve businesses.
 - **App Stability:** Owning the Android ANR and Crash metrics of PhonePe, debugged and helped identify root causes of multiple unknown ANRs and Crashes, fixing which increased ANR free users by 2% and crash free sessions by 0.3%. We are currently at a crash free users of 99.7% and ANR free sessions of 99.8% at a scale of 320M+ MAU.
 - **Android Tech Stack Upgrade:** Helped fix multiple issues related to migration, R8, kotlin upgrade and AGP upgrade across a code base of 1.4M+ lines of code. Established guidelines and proguard rules for development with new tech stack, fixed 100+ tests which didn't comply with newer tech stack.
 - **Miscellaneous:** Part of multiple campus hiring drives and hiring initiatives across PhonePe.
- Software Engineer - Insurance* January 2022 - June 2024
 - **LiquidUI:** Part of founding team behind PhonePe's internal SDUI framework, serving e2e app flows on the fly, increasing development efficiency by 75%, aimed at reducing development costs by 50%. Designed and developed core components, orchestrated bugfixes, improved test coverage by 60%.
 - **Unified Health Insurance:** Orchestrated development, project planning, provider integration discussions, and bug fixes for timely launch. We have sold 50k+ Health Insurance Policies contributing to 4M+ in revenue so far. Owned multiple health insurance BAU launches as part of funnel improvement.
 - **Health as a Destination:** Designed and developed an activity tracking library using a persistent foreground service to continuously monitor user activity and generate actionable insights. Optimized performance and resolved session-related issues. This project was aimed at increasing user engagement.
 - **Darkmode:** Owned the darkmode development in Insurance across all the products, fixing over 40+ issues.
- **Sensen.ai & Sensen Networks** Hyderabad, India
Software Engineer - R & D July 2021 - December 2021
 - Led a team of 4, improving sprint management and mentorship for increased productivity.
 - Implemented optimized in-app alerting framework, reducing alerting time by 900%.
 - Revamped detection engine, increasing detections fps by 400%.
 - Re-Architected the Camera2Service module of Gemineye following MVVM architectural practices.
 - Consistently awarded top performer and praised for leadership abilities.
- Android Developer Intern* June 2020 - July 2021
 - Worked on 50+ tickets involving commercial features and bug fixes.
 - Developed an auto-exposure algorithm, increasing the accuracy of the detections by 13%.
 - Developed the p2p networking module leveraging NanoHTTPD for achieving 24*7 connectivity between android devices with 99% stability.
 - Implemented a recognitions grouping algorithm increasing detection accuracy, resulting 5x sales.
 - **Miscellaneous:** Had been part of the core development team, responsible for code reviews, releases and recruitment in the company.

PROGRAMMING SKILLS

- **Languages:** Java, Kotlin, Python, Dart, PHP, C, SQL **Technologies:** Android, Flutter, MongoDB, OpenCV, Bazel