Nishita Dutta

📱 +65 85436651 ● ✉ nishita_dutta@outlook.com

Github: nish-d, Website: http://nish-d.github.io/

Technical skills

- **Fullstack Development:** Full-stack developer with expertise in Java, Spring Boot, Angular, Solace, MySQL, and Oracle.
- **Android Programming:** 4+ years of experience with Java & Kotlin, including Firebase, Room, Kotlin Native, and Gradle DSL.
- **Other technical skills:** Programming Languages like Java, Kotlin, Python, C, C++, Go, Proficient in Git version control, SQL, Designing REST APIs and microservices.

Work Experience and Internships

PSA, Singapore **Jul 2023 - Present**
Software Engineer
Working as a fullstack developer designing applications in **Java Spring Boot and Angular** to mobilize port operations of PSA. Designed and implemented **high-impact features, optimized system performance, and automated processes** to improve efficiency. Took ownership of critical projects, led best practices, and contributed to code quality, scalability, and team mentorship.

NinjaVan, Singapore **May 2022 - Aug 2022**
Software Engineer Intern, Backend
Devised new features and designed APIs for a chat bot platform working with technologies such as **Java, Kafka, GoLang.**

PhonePe **Jul 2018 - Dec 2021**
Software Engineer, Android
- Designed and implemented **authentication & authorization** framework for the application.
- Improved UX & ease of registering on the platform resulting in a 20% jump in the number of successful sign-ups & new users.
- Re-engineered the build system of consumer facing Android application (**Kotlin Gradle DSL**) & reduced build time by 70%. Reduced app cold startup time by 30%.
- Designed & programmed an analytics framework in **Kotlin Multiplatform** to collect data about user behaviour & impressions.

Credit Suisse **Jun 2017 - Aug 2017**
Technical Analyst Intern
Developed a log parsing application using **C# & .Net technologies**, for Credit Suisses' algorithm trading engine.

Tata Institute of Social Sciences **Jul 2016 - Oct 2016**
Mobile App Developer
Created an Android application for Capacity Building of the Elected Women Representatives (EWRs) of India

Education

National University of Singapore **Singapore**
Masters in Computing, Computer Science Specialization, CGPA 4.03 *2022–2023*

Sardar Patel Institute of Technology **Mumbai**
Bachelors of Engineering in Information Technology, CGPA 8.52 *2014–2018*

Positions of Responsibility

- Graduate Teaching Assistant for AI Planning and Decision Making. Taught a cohort of 40 students, conducted tutorials, designed and graded assignments.
- Training and Placement Coordinator at Sardar Patel Institue of Technology
- Mentored a team of 12 students for building a placement/ recruitment portal for the college
- Taught and mentored underprivileged children as part of a volunteer network in the NGO, Abhyudaya and also as a Teach Singapore Mentor at Tanglin Secondary School

Publications and Certifications

International Journal of Research in Signal Processing, Computing & Communication System Design
Deep Bidirectional RNNs using GRUs & LSTM Units for Building Acoustic Models for Automatic Speech Recognition.

Investigating the Reusability of Database Management Systems' Test Suites
Masters Project

Notable Projects

- **Web/Backend:** Team Lead for developing a portal for a national level IOT contest based on Laravel, a PHP framework
- **Android:** Developed a mobile application, Emerge that uses various technologies such as Microsoft's HealthVault SDK, Firebase Realtime Database & other Google API's

Awards and Achievements

- Ranked 4th in CodeIT Suisse 2017 Hackathon, Credit Suisse & participated in J.P Morgans Code for Good Hackathon
- Qualified for, & participated in ACM-ICPC, Amritapuri 2016 regionals, India