

Nishita Dutta

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

Technical skills

- **Fullstack Development:** Full-stack developer with expertise in Java, Spring Boot, Angular, Solace, Oracle, Concourse CI/CD.
- **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. Owning end-to-end project lifecycle, from planning and development to deployment, monitoring and maintenance.
- **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 Suisse's 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 Institute 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 and Achievements

- **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 APIs
- 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