

# Nishita Dutta

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

## Education

- **National University of Singapore** **Singapore**  
2022–present  
*Masters in Computing, Computer Science Specialization, School of Computing, CGPA 4.03*
- **Sardar Patel Institute of Technology** **Mumbai**  
2014–2018  
*Bachelors of Engineering in Information Technology, CGPA 8.52, Andheri*

## Work Experience and Internships

- **Teaching Assistant, NUS** **August, 2022 - Present**  
*AI Planning and Decision Making*  
Conducted tutorials, designed and graded assignments, and other tutor related tasks.
- **NinjaVan** **May, 2022 - August, 2022**  
*Software Engineer Intern, Backend*  
Designed new features and designed APIs for a chat bot platform working with technologies such as Java, Kafka, GoLang.
- **PhonePe** **January, 2019 - December, 2021**  
*Software Engineer, Android, User Onboarding, Recharge & Bill Payments*  
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. Constructed a dynamic form rendering framework for ease of releasing features on the fly amongst other enhancement projects.
- **PhonePe** **July, 2018 - December, 2019**  
*Software Engineer, Mobile Core*  
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 multiplatform Kotlin Native to collect data about user behaviour & impressions.
- **Credit Suisse** **June, 2017 - August, 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** **July, 2016 - October, 2016**  
*Mobile App Developer*  
Created an Android application for Capacity Building of the Elected Women Representatives (EWRs) of India

## Positions of Responsibility

- Teach Singapore Mentor for school students of Tanglin Secondary School
- 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

## 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.*
- **Codechef Certified Foundation Level Exam**  
*CodeChef Certified Data Structure & Algorithms Programme, (CCDSAP)*

## 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 APIs

## 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