Samriddha Basu

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TECHNICAL SKILLS

- Programming & Debugging (C, Java, Python, etc.)
- Data Science & Analysis (Spark, Hadoop)
- Database Systems (RDBMS/SQL, NoSQL)
- Version Control (Git)
- Web Development (HTML/CSS, JavaScript)
- App Development (Android)
- Machine Learning (Spark ML, scikit-learn)
- Linux Kernel

EDUCATION

Master of Computing (Computer Science) August 2022 — Present
School of Computing, National University of Singapore (NUS) GPA: 4.57 / 5

Bachelor of Engineering (Computer Engineering) August 2015 — May 2019
Sardar Patel Institute of Technology (University of Mumbai) GPA: 8.86 / 10

CERTIFICATION

Mobile Web Specialist August 2019
Google

Front-End Web Developer Nanodegree by AT&T, Google, GitHub May 2018 — Nov 2018
Udacity

Android Developer Nanodegree by Google Feb 2016 — Jan 2017
Udacity

EXPERIENCE

Graduate Research Assistant at **NUS Systems & Networking Lab** May 2023 — Present
Using AI-based tools such as OpenAI's ChatGPT and Google Bard to develop a financial services application, while researching the benefits in productivity and efficiency offered by such AI helpers to developers.

Software Engineer and Data Scientist (Full-time) at **Credit Suisse** July 2021 — July 2022
Used Palantir's Foundry platform for Big Data Analysis to work with high volume trade datasets and generate Market Risk-related insights and reports, as part of the Market Risk Technology team.

Technology Analyst (Full-time) at **Credit Suisse** July 2019 — July 2021
Developed and maintained a C#/.NET-based flow management tool for managing trades in foreign exchange and listed derivatives, as part of the Electronic Trade Flow Management team.

Code Reviewer and Mentor at **Udacity** Jan 2018 — Mar 2019
Reviewed student submissions of projects for the Android Developer Nanodegree and served as a mentor for students participating in the program.

Technology Intern at **Credit Suisse** May 2018 — July 2018
Worked on redesigning and refactoring a C#/.NET-based application used by traders within the organization, as part of the Global Markets Technology department.

Android Developer Intern at **Websites.co.in** Feb 2017 — Mar 2017
Developed the Android client app for Websites.co.in, a SaaS platform that allows anyone to get their business online as fast as possible. The Android app is a convenient way for users to manage their website.

PROJECTS

Mystic Brush VR
Unity, XR, C# - https://thedorkknightrises.itch.io/mystic-brush-vr
A VR game for the PICO 4 standalone headset. Use a magic paintbrush to bring your creations to reality. Well, virtual reality. Developed in 3 days at the Lv99 + PICO VR Bootcamp in June 2023. Available on Itch.io

Chehra – Face Recognition Attendance Management System
Machine Learning, Image Processing, Django, IoT, Android
A proof-of-concept attendance management system that supports recognition of multiple faces from classroom pictures. The teacher app initiates the process for marking attendance while student app receives attendance status notifications and allows tracking attendance stats over time.

NotePal – Material Notepad
Android, SQLite - https://play.google.com/store/apps/details?id=thedorkknightrises.notes
A beautiful Material Design note-taking experience with innovative features such as pinned and scheduled notifications, OK Google voice actions, Drive backup, etc. Available on the Google Play Store

Multi-user Adaptive Launcher for Android
Android, UX Design
Allows multi-user multi-profile and single-user multi-profile workflows on a single device, where each profile (e.g., Work, Travel) has its own list of applications and smart suggestions, to increase efficiency.

PUBLICATIONS

- R. Dmello, S. Yerremreddy, S. Basu, T. Bhitle, Y. Kokate and P. Gharpure, "**Automated Facial Recognition Attendance System Leveraging IoT Cameras**," *2019 9th International Conference on Cloud Computing, Data Science & Engineering (Confluence)*, Noida, India, 2019, pp. 556-561.
- S. Yerremreddy, S. Basu, A. Ojha and D. R. Kalbande, "**Machine Learning Approach for Diagnosis of Autism Spectrum Disorder**," *2019 2nd International Conference on Innovative Computing and Communication (ICICC)*, Ostrava, Czechia, 2019.
  - ➢ Received Best Paper award at the conference.
- S. Basu, R. Gite, P. Singh and N. Raul, "**Multi-user Adaptive Launcher for Android**," *2019 Twelfth International Conference on Contemporary Computing (IC3)*, Noida, India, 2019, pp. 1-6.

POSITIONS OF RESPONSIBILITY

- Represented college as Team Leader in the Grand Finale of the inaugural Smart India Hackathon 2017
- Teaching Assistant for Professor Prachi Gharpure, Principal of S.P.I.T., for the period from Jan 2017 - May 2017, responsible for guiding students with their academic curriculum and project work
- As a Microsoft Student Partner (2017-18), I was responsible for sharing my knowledge and passion for tech with fellow students, building leadership and communication skills along with technical expertise
- Head of Technology at Entrepreneurship Cell, Sardar Patel Institute of Technology for the period Jul 2017 – Jul 2018
- Worked as Mentor and one of the Lead Developers in creating the TechForSocial platform (TechForSocial.com) for showcasing innovative ways to make use of technology for social causes under Dr. Dhananjay Kalbande, Dean of Industry Relations and Head of Computer Department at S.P.I.T.

ACHIEVEMENTS

- Recipient of National Talent Search Examination (NTSE) Scholarship from the Government of India
- One of 1000 recipients of full scholarship from Google India and Tata Trusts for the Android Developer Nanodegree at Udacity
- One of 350 recipients of full scholarship from Google India for the Front-End Web Developer Nanodegree at Udacity
- Second runners-up at the NBF Tech Challenge 2018 organized by NMIMS, Mumbai