

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)

School of Computing, National University of Singapore (NUS)

August 2022 — Present

GPA: 4.57 / 5

Bachelor of Engineering (Computer Engineering)

Sardar Patel Institute of Technology, University of Mumbai

August 2015 — May 2019

GPA: 8.86 / 10

CERTIFICATION

Mobile Web Specialist

Google

August 2019

Front-End Web Developer Nanodegree by AT&T, Google, GitHub

Udacity

May 2018 — Nov 2018

Android Developer Nanodegree by Google

Udacity

Feb 2016 — Jan 2017

EXPERIENCE

Graduate Research Assistant at NUS Systems & Networking Lab

Developing a Flask-based website which provides users with investment advice based on ChatGPT's analysis of stocks and their financial indicators, while researching the benefits in productivity and efficiency offered by the use of generative AI tools to aid in development.

May 2023 — Present

Software Engineer and Data Scientist (Full-time) at Credit Suisse

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. Primarily worked with PySpark transforms with some HTML/CSS/JS for dashboards and visualizations.

July 2021 — July 2022

Technology Analyst (Full-time) at Credit Suisse

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.

July 2019 — July 2021

Code Reviewer and Mentor at Udacity

Reviewed student submissions of projects for the Android Developer Nanodegree and served as a mentor for students participating in the program.

Jan 2018 — Mar 2019

Technology Intern at Credit Suisse

Worked on redesigning and refactoring a C#/.NET-based application used by traders within the organization, as part of the Global Markets Technology department.

May 2018 — July 2018

Android Developer Intern at Websites.co.in

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.

Feb 2017 — Mar 2017

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. Initially developed as a prototype for the Lv99 + PICO VR Bootcamp in June 2023. Available on PICO Lab within the PICO Store, and on Itch.io.

Chehra – Face Recognition Attendance Management System

Android, Machine Learning, Image Processing, Django, IoT

A proof-of-concept attendance management system that supports recognition of multiple faces from classroom pictures. I was the lead Android developer working on the Teacher and Student apps.

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

A prototype launcher application for Android phones that enables multi-profile workflows on a single device, where each profile(e.g., Work, Travel) has its own list of applications and smart suggestions

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 Sardar Patel Institute of Technology, for the period from Jan 2017-May 2017
- 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
- As Head of Technology at Entrepreneurship Cell, Sardar Patel Institute of Technology for the period Jul 2017 – Jul 2018, I was part of the core organizing committee for various events
- 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