Samriddha Basu

Email: samriddhabasu (at) gmail (dot) com
Phone: +91 9619402185 | +65 98852940

Website: http://samriddhabasu.github.io
GitHub: https://github.com/TheDorkKnightRises
LinkedIn: https://www.linkedin.com/in/samriddha-basu

TECHNICAL SKILLS

- Programming & Debugging (C, Java, Python, etc.)
- Data Processing (Spark, Hadoop, numpy, pandas)
- Machine Learning (Spark ML, scikit-learn)
- Version Control (Git)
- Web Development (HTML/CSS, JavaScript)
- App Development (Android)
- Database Systems, ETL (RDBMS/SQL, NoSQL)
- 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
- Developing a Flask (Python) based website which provides users with investment advice based on ChatGPT's analysis of stocks and their financial indicators.
- Researching the benefits in productivity and efficiency offered by the use of generative AI in development.
- Collaborating with a small team of developers across Singapore and China, with other members working on related modules such as news impact analysis on stock prices.

Software Developer & Data Engineer (Full-time) at **Credit Suisse** July 2021 — July 2022
- Used Palantir's Foundry platform for Cloud-based 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.
- Collaborated with colleagues spread across EMEA, APAC and the Americas via Agile Methodologies.
- Primarily worked with Python and Spark SQL, with some HTML/CSS/JS for dashboards and visualizations.
- I was the primary owner of a code repo/module which acted as the interface between the data pipeline and the visualization dashboards exposed to the business users, and managed all deliverables for the repo.

Technology Analyst (Full-time) at **Credit Suisse** July 2019 — July 2021
(July 2020 - July 2021)
- Worked on a Java/Spring Boot-based backend for a Market Risk dashboard application, as part of the Market Risk Technology team.
- One of my significant contributions to this project was to increase its scalability manifold, with a significant speedup in the time taken by the daily task of processing the trade datasets by ~50% (from ~20 hours to ~10 hours) while removing the 5-day limit on historical data.
(July 2019 - July 2020)
- Developed and maintained a C#/.NET-based tool for managing trades in Foreign Exchange (FX) and Listed Derivatives, as part of the Electronic Trade Flow Management team spread across Americas and APAC.

Code Reviewer & 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. Offered full-time role based on performance.

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 (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

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 hosted by E-Cell
- 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 and Royal Academy of Engg. UK