SATRAJIT CHATTERJEE

Computer Science And Mathematics Dual Major Student

@ satrajit314@gmail.com ⚲ Ontario, Canada 🔗 satrajit.ca
in linkedin.com/in/satrajit-c ⌾ github.com/wise-bit

WORK EXPERIENCE

SRE Software Developer

RBC Royal Bank of Canada

📅 January 2022 – April 2022 ⚲ Toronto, Canada

- Investigated **SRE** solutions to analyze data from **SLI** logs using **supervised learning** and predict **error budget** of on-boarded services.
- Implemented employee portfolio of internal services by generating **GraphQL** endpoints using **ElasticSearch** and **PostgreSQL** queries, with upgraded queries that improved data access time by **40%**.
- Created interactive service **dependency graphs** in **React** using **React Flow** and **MUI** with adaptive node generation and positioning.
- Designed **flow**-based interactive prototypes using **Figma** and **LucidChart** and implemented them over a sprint-based **Agile** environment.
- Managed project deployment using containers on **OpenShift** and **Helios**.

Full-Stack Software Developer

uOttawa Engineering Outreach

📅 May 2020 – December 2021 ⚲ Ottawa, Canada

- Developed a session management interface using **Typescript**, **Angular** and **SCSS**, designed in **Figma** prioritizing user experience over an **Agile** implementation.
- Built **REST API** endpoints in Apache Sling for features requested by university staff and liaison clients using **Postman** for testing purposes.
- Optimized testing process with **60%** reduced stack execution time, converting test suites from **Selenium** to **Protractor** and back-end testing to **Cypress**.
- Enhanced **API** responses by writing efficient **PostgreSQL** queries, speeding up endpoint services and batch calls by **90%**.
- Utilized AWS services such as **S3** buckets for storage and **ECS** for deployment with continuous integration using **Travis CI**.

PROJECTS

Picanote - *Online Learning Transcription Application*

- Desktop screen capture app with OCR support to push images and text notes to the cloud, paired with a mobile app to search through, view and modify existing cloud notes.

Python Tesseract GCP Functions Firebase Flutter

KaratAI - *Karate And Fitness Trainer*

- Fitness-oriented web-app with posture recognition using mapping of selective real-time processing of frames, and a scoring system to train users in Karate moves at home.

OpenCV Flask Python React Express Adobe XD

EDUCATION

Joint Honours BSc in Computer Science and Mathematics **(3rd Year)**

University Of Ottawa

🎓 CGPA: 9.0 (Equivalent to 4.0 GPA)

📅 September 2019 - December 2023 (Expected)

TECHNICAL SKILLS

Languages

Java Python Golang Node
Elixir Typescript Javascript C++
SCSS Ruby R

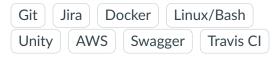**Frameworks**

Angular React Express Cypress

Backend

PostgreSQL GraphQL ElasticSearch
Spring Boot Apache Sling Firebase

Libraries

Numpy Scikit-learn OpenCV

Tools

Git Jira Docker Linux/Bash
Unity AWS Swagger Travis CI

EXTRACURRICULAR

Computer Science Student Association
Academic Vice President

- Contributed to resolving academic issues such as learning accommodations.
- Organized academic and social events such as workshops for students.

ACHIEVEMENTS

uOttawa Chancellor's Scholarship
- uOttawa Faculty Of Engineering, 2019

Department Of Computer Science Award
- Bur Oak Secondary School, 2019

McGill Science Award
- McGill University, 2019

SPOKEN LANGUAGES

English ●●●●●
French ●●●●○