SATRAJIT CHATTERJEE

Computer Science And Mathematics Dual Major Student

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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

KaratAl - Karate And Fitness Trainer

- Created a fitness web-app in React and Express with posture recognition with OpenCV on a Python backend, using Adobe XD for wireframing.
- Designed an original algorithm that selectively processes frames and maps them to a sequence of key nodes to process video at a rapid pace.

Reconattendance - Facial Recognition And Rapid Image Processing

- Constructed an automated attendance system using an original minimal facial recognition algorithm based on concepts of **OpenCV**.
- Developed an API to be called from a drone, optimizing for rapidly changing frames by filtering input data.

EDUCATION

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

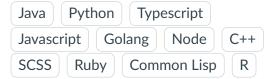
University Of Ottawa

CGPA: 9.0 (Equivalent to 4.0 GPA)

September 2019 - April 2023 (Expected)

TECHNICAL SKILLS

Languages



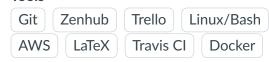
Frameworks

Angular	React	Express	Cypress
/ tilbalai	react	EXPICSS	Cypicss

Backend

PostgreSQL	GraphQL	ElasticSearch
Spring Boot	Apache Sling	

Tools



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

University of Ottawa 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

