

Souradeep Saha

XXX-XXX-XXXX | s54saha@uwaterloo.ca | [linkedin.com/in/souradeep-saha](https://www.linkedin.com/in/souradeep-saha) | github.com/SouradeepSaha

EDUCATION

University of Waterloo

Bachelor of Science in Computer Science

Waterloo, ON

Sep 2020 – Apr 2024

TECHNICAL SKILLS

Certifications: AWS Certified Cloud Practitioner (CLF-C01)

Languages: (Proficient): Python, C/C++, SQL, (Familiar): Java, JavaScript, Scheme, Bash, MongoDB

Frameworks: React, Node.js, Django, Numpy

Developer Tools: Git, Docker, VS Code, AWS, Oracle Cloud, Firebase

EXPERIENCE

Instinet Incorporated

Site Reliability Engineering (SRE) Intern, Data Services

May 2022 – Aug 2022

Remote, NY

- Reduce monthly expenses by \$25,000 by building auto-shutdown schedule for unused cloud resources
- Pilot migration from on-premises to AWS by automating provisioning and maintaining cloud infrastructure using AWS CloudFormation, Python, Gitlab Pipelines and integrated real-time monitoring using Grafana
- Create comprehensive documentation using UML and architectural diagrams on Confluence
- Utilize knowledge in GitLab CI/CD, AWS IAM, Cost Explorer, CloudWatch, Python, Grafana, Prometheus

Paphus Solutions

Software Developer Intern

Sep 2021 – Dec 2021

Ottawa, ON

- Implement Instagram and Facebook Messenger support for customer-facing web app of chatbot service resulting in 1000+ new sign-ups within 3 months
- Reduce latency between back-end services by 40% by developing a REST API using Spring Boot and PostgreSQL
- Establish remote testing and monitoring of server and database using bash scripts
- Utilize knowledge in Java EE, Tomcat, Apache Ant, REST API, Facebook Graph API, AIML script

Danforth Collegiate and Technical Institute

Fullstack Web Developer

Jun 2020 – Aug 2020

Toronto, ON

- Collaborate with 2 other students to develop, test, and deploy an online art gallery for high school students
- Optimize performance leading to over 70% faster loading time using CDN and cache
- Utilize knowledge in HTML, CSS, Bootstrap, JavaScript, Python with BS4, Firebase, CloudFlare CDN

PROJECTS

UWPath | *Python, Django, NGINX, Vue, PostgreSQL*

May 2022 – Present

- Refactor monolithic architecture to micro-services to decouple components and introduce fault tolerance
- Implement Google OAuth using Firebase to store, retrieve and analyze user data
- Dockerize micro-services, automate build and deployment using GitHub Actions and watchtower
- Participate in agile project management to conduct weekly scrum meetings and delegate task among 10 members

QuantBot | *Python, NumPy*

May 2021

- Design and built a forex trading bot using Python and OANDA API to analyze live market data and place trades to maximize profits
- Achieve average ROI of 12% with 57 of 100 profitable trades
- Utilize knowledge in financial markets, trading strategies and indicators such as Bollinger Bands, Moving Averages, RSI, and implemented machine learning using NumPy to create linear models to improve predictions

Scribr | *React, JavaScript, HTML, CSS*

Sep 2020

- Lead a team of 4 to create a Chrome extension to record, generate live transcript and summarize video calls
- Leverage knowledge in full stack development and debugged using Chrome and React Developer Tools
- Winner of Garuda Hacks 2020