Abdulkadir Ahmed

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SKILLS

Languages : Java, Python, C++, C, Bash, GO, Perl, JavaScript (React.js, Node.js), HTML/CSS, SQL (Oracle, MySQL), Kotlin
Tools : Kubernetes, AWS, Jira, Jenkins, Vim, GitHub, Groovy, Docker, Selenium, Flipper, Unity, Linux, Git, Elastic, Android Studio
Knowledge : CAN, TCP/IP, Symmetric Cyptography, REST, HTTP, Socket Programming, NLP, OpenTelemetry, Google SQL Server

EXPERIENCE

Snap Inc   May. 2023 – Sep 2023
Software Engineer Intern   Santa Monica, CA
- Led the design and implementation of a Feedback Loop mechanism, leveraging **Kotlin**, **Android Studio** and **Flipper**.
- Utilized **DynamoDB** to address and automate solutions for Ads rendering, media issues and cache expiration - achieving a **7.2%** improvement in ad engagement.
- Reduced Ad delivery failures reported by clients by **43%** compared to the baseline by using **SQS** for efficient Ad delivery.
- Designed **Looker** alarms and custom real-time **Graphene** dashboards to monitor performance and gain valuable insights - leading to a **12%** increase in ad revenue for Snap Promoted Story tiles and **11%** in ad insertion.
- Introduced a **TensorFlow** intent classifier model to handle over **3 million** corrupted Ads per day in the Ad Delivery database.

AMD   May 2022 – April 2023
Software Engineer Intern   Toronto, ON
- Worked closely with **Jenkins** to automate **CI/CD** pipelines for code deployment speeding up delivery processes by **75%**.
- Developed an automated code linting bot that incorporates code linting tools with a **14%** increase in accuracy on **Git** and **Gerrit**
- Migrated to the **Elastic** stack to improve availability, reliability, and scalability of logs by using **Filebeat**, **Foreman** and **Logstash**.
- Automated and optimized processes using coordination and containerization tools, like **Jenkins**, **Docker**, and **Kubernetes**.
- Instrumented existing **Python** and **NodeJS** applications using **OpenTelemetry** API and SDK to export **metrics & traces** to improve speed of software delivery processes by **70%**.

Toronto Metropolitan University   May 2021 – Oct. 2021
Data Research Assistant Developer   Toronto, ON
- Built HTML-parsing **Python** web scrapers with **Selenium/BeautifulSoup** to gather job-posting data from 300 000 search queries.
- Leveraged **Python's Panda** and **NumPy** libraries to clean data from Data Frames removing over 1 million rows of duplicates.
- Designed a lab website using **CSS** and **Javascript**. - reduced load time by **45%** by adding browser caching & image compression.

TMU Robotics Team (R3)   Sep 2020 – Present
Software Team Lead   Toronto, ON
- Extensively used **ROS2 Framework** to develop hardware layout and network architecture in **ROS** - fine tuning the robot
- Helped setup **Controller Area Network** APIs using **socketCAN**.
- Developed programs in **OpenCv** for object detection and **PCB** boards in **Eagle Cad**.

PROJECTS

SkribbleGuess
- Developed a multiplayer drawing application that uses a voice API to teach kids new words using **ReactJS**, **JavaScript**, **HTML**, **CSS** and **Twilio API** for the front-end, **NodeJS**, **SocketIO** for the back-end in under 24 hours.
- Hosted the back-end using the **Google Cloud API** and **Netlify** services.

Client Store Application
- Designed and developed a Client DB application on **Java** and **SQL** with an admin portal and a user interface.
- Utilized **Unity Engine** to construct API in **C#** and used **SSH** to connect to the server.
- Utilized **SQL developer** connected to **Oracle**, to construct a database and reduce data within the database by 25%.

EDUCATION

Toronto Metropolitan University   Sep. 2019 – 2024
*BASc in Computer Engineering, **CGPA**: 3.90*   Toronto, ON
- **Coursework**: Data Structures, Algorithms, Databases, Computer Systems, Machine Learning, Software Systems
- **Extracurricular**: Ryerson Rams Robotics Team, National Society of Black Engineers Ryerson Chapter