Ivan Chowdhury

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Skills

Languages: Java, JavaScript, SQL, Kotlin, Python, HTML, CSS
Technologies: Git, Docker, Spring Boot, React, AWS, PostgreSQL, MySQL, Linux, TensorFlow, Cucumber
Other: Agile, RESTful APIs, Unit Testing, Continuous Integration & Deployment (CI/CD), SDLC, HTTP, JSON

Work Experience

Full Stack Software Engineer (Contract) JPMorgan Chase Sep 2021 — Present

- Developed and maintained microservices for handling American depository receipt data, using Java, Kotlin, Javascript, SQL, React, and Spring Boot
- Overhauled entire end-to-end system for modifying contract terms, writing new APIs, UI components, SQL queries, and database alterations
- Ensured high code coverage by employing unit testing with JUnit and Mockito, API integration testing with Postman, and UI automation testing with Cucumber
- Managed deployment of new releases using a CI/CD pipeline, and monitored service performance with AWS Cloudwatch, Datadog, and Splunk
- Identified and remediated open-source vulnerabilities to maintain software security

Projects

itsMe: Attachable Smart Lock git.io/JRHkt

- Led a team of 4 to invent a low-cost smart lock that installs seamlessly by latching onto doors, allowing tenants, apartment owners, and moving homeowners to reuse it frequently without renovation costs
- Developed an Android app in Java for remote control and monitoring of the smart lock
- Programmed a Raspberry Pi in Python for Bluetooth Low Energy (BLE) request handling and high-precision Servo rotation
- Published an open-source design that could be customized, 3D-printed, and assembled at 30% of the cost of industry smart locks, and was evaluated positively by over 100 undergraduates, faculty, and visitors

NutriDiary: Adaptive Nutrition Tracker git.io/JB1YV

- Developed a full-stack web application that logs nutritional data, and uses it to compute personalized calorie and protein intake recommendations that adapt to gain accuracy over time, helping users meet their weight loss or muscle gain goals
- Built a dynamic frontend using JavaScript and React
- Implemented a REST API with Java and Spring Boot, to interface with a PostgreSQL database

Movie Review Sentiment Analyzer git.io/JRHIt

- Built a recurrent neural network (RNN) in Python that performs sentiment analysis on movie reviews; users may input a movie review, and the neural network will predict whether it has a positive or negative sentiment
- Applied TensorFlow and Keras to train the RNN on a dataset of 50,000 IMDb movie reviews, achieving a prediction accuracy rate of 93.54%

MATCH: Social Networking Platform git.io/JRHIE

- Collaborated with a team of 4 to develop a full-stack web application for a social network that matches users to local friends with common interests
- Implemented a web chat in JavaScript, and interfaced with a MySQL database using Java and JDBC

Education

The Cooper Union for the Advancement of Science and Art, New York, NY Sep 2016 — May 2020
Bachelor of Engineering in Electrical Engineering, specialization in Computer Engineering