# Ivan Chowdhury

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#### Skills

Languages: Java, Kotlin, Python, JavaScript/HTML/CSS, TypeScript, SQL Technologies: Git, Docker, Spring Boot, React, PostgreSQL, MySQL, Maven

Other: Agile Development, REST APIs, Unit Testing, Continuous Integration & Deployment (CI/CD)

# 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,
  TypeScript, SQL, React, and Spring Boot
- Overhauled entire end-to-end system for modifying contract terms—writing new API calls, UI components, and SQL queries—to introduce major features requested by end users
- Remediated static and open-source software vulnerabilities, reducing security issues in new releases by 70%
- Managed deployment of new releases using a CI/CD pipeline, and monitored production systems using AWS, Datadog, and Splunk
- Ensured high code coverage by employing unit testing with JUnit and Mockito, API integration testing with Postman, and UI automation testing with Cucumber
- Integrated agile methodologies into teamwide workflow, with regular sprints, story point estimations, and retrospectives

# **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 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
- Designed a dynamic frontend and UI 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

# RestMapNYC: Restaurant Plotter

git.io/JRHI8

- Created a website with JavaScript and jQuery that searches up to 5 different Yelp queries simultaneously, then displays the best matches on a map of NYC, with quick access to each result's Yelp profile
- Accessed the Yelp Fusion and Google Maps APIs for restaurant and map data, and the CORS Anywhere API to send cross-origin requests with AJAX

# Missing Person Tracking API

git.io/J01Ns

- Released an API for reporting and tracking sightings of missing people, using Spring Boot and PostgreSQL
- Implemented image uploading support, and utilized dependency injection for optimal abstraction of web services