BILAL BAIG

SOFTWARE ENGINEER

bilal.baig316@gmail.com | bilalbg.com | linkedin.com/in/bilalbg | github.com/bilalbg

PROFESSIONAL EXPERIENCE

Amazon Feb 2022 – Mar 2023

Software Development Engineer

Toronto, ON

- Orchestrated development of Java-based microservices used in processing 1000+ daily inventory events to enhance reporting precision of global inventory levels, improving item fulfillment efficiency
- Led automation of correcting inaccurate inventory stores by devising a service using AWS Lambda, AWS S3, and DynamoDB, achieving a 15+% reduction in completion time of manual inventory data correction
- Spearheaded redesign of an inventory tracking system, utilizing **AWS Step Functions**, AWS Lambda and DynamoDB, leading to an **improvement of 40% in operational accuracy** over previous iteration
- Supervised and mentored junior engineers to effectively contribute to development of complex supply chains systems, on-boarding them with **Java Spring Boot**, **TypeScript** and AWS-based microservices
- Automated process of cleaning development logs by creating an automated Cron script that selectively clears 100+
 log files weekly, mitigating service errors previously occurring during critical development periods

Sabbatical Sep 2023 – Sep 2024

OPEN-SOURCE EXPERIENCE

Hack For LA Jun 2024 – Present

Open-Source Developer & Contributor

- Collaborate with a cross-functional team in the development of an open-source web application partnered with the LA Department of Transportation, facilitating city's planners in achieving their Mobility Plan 2035 goals
- Developed "snapshot sharing" feature that allows users to grant view access of previous calculation results, utilizing JavaScript and Express.js for building API and MS SQL for database procedures, improving overall collaboration
- Enhanced User Interface and User Experience (UI/UX) by revamping **React** Components, clarifying user app navigation elements and improving accessibility

INDEPENDENT PROJECTS

Crossroads | iOS social app connecting users using real-time location and peer-to-peer connections

• Utilized **Swift**, **SwiftUI**, **Firebase** and Multipeer Framework in development of security measures includes such as authentication & cryptographical randomness to mitigate malicious network attacks

Quotetaking | iOS app enabling users to conveniently save and share quotes from books

GitHub

- Devised an image-to-quote feature that extracts and saves text from photos as a quote, integrating Vision framework's OCR technology with Swift and SwiftUI, enabling accessibility for physical book readers
- Optimized app performance and memory usage by implementing a lazy loading mechanism to loading quotes from Core Data storage, enhancing overall app responsiveness and user experience

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, PostgreSQL, MS SQL, Swift, Python, Golang, Objective-C, Haskell

Tools and Platforms: AWS, Git, NoSQL, MongoDB, DynamoDB, Docker, Redis **Libraries and Frameworks**: SwiftUI, Java Spring Boot, React, Core Data

EDUCATION

York University

Bachelor of Science in Computer Science

Toronto, ON

HOBBIES & INTERESTS

Philosophy, Literature, Languages, Guitar & Piano, Fitness, Hiking, Traveling, Motorcycles & Cars, Fashion, Gaming