Avik Hasija

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Systems Design Engineering 2A

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Skills

Languages: Java, C++, JavaScript, Kotlin, Python, SQL, HTML/CSS

Frameworks/Libraries: Android, GSON, Retrofit, SQLite, Node.js, MongoDB, React, Redux, Express

Experience

American Express - *Software Engineer & UI/UX Designer*   **Sept. 2017 - Dec. 2017**

- Designed and developed *Amex Ideas*, an internal platform to catalog business ideas. Created wireframes in **Sketch**, and developed backend, API layer, and front end using **MongoDB**, **Node.js**, **Express**, and **React**.
- Designed user flow/experience and developed Android prototype in **Kotlin** and **XML** for *Amex Unlocked*, a gamification platform to increase cardholder engagement.
- Built administrative features for the *Amex International Insurance Services Portal* (IISP) in Java with the Spring MVC framework, including CRUD functionality for policy data, **saving $10,000** in annual funding.
- Wrote controller, service, and repository layers in **Java** and **SQL** for dynamic updating of insurance claims, eliminating a 5 day processing time per claim.

CBC/Radio-Canada - *Native App Developer*   **Jan. 2017 - Apr. 2017**

- Developed new features, user interfaces, and bug fixes in major redesign of CBC News Android app in Java and XML, leading to a **16% increase in MAUs** to over 500k+.
- Implemented client-side functionality for trending articles, localized news, and overhauled app navigation.
- Worked with early developer preview of **Android Instant Apps** to create CBC News feature module, which was unveiled at **Google I/O 2017**.
- Created CBC News **Android Auto** MVP using media sessions and services.

Mindbend Studio - *Lead Android Developer*   **Jul. 2015 - Feb. 2016**

- Lead Android development for infor[me], a platform to manage announcements in large organizations.
- Created scalable hierarchal model, including administrative panel to manage and approve announcements.
- Released in beta to **1000+ users**.

Projects

Political News Bot

- Chatbot relaying stories on news events from a variety of sources representing differing political views.
- Built on Facebook **Messenger Platform** using Node.js, MongoDB, and Indico's sentiment analysis API.

Learning Lock

- Android lock screen which differentiates between user and intruder based on how pattern is drawn.
- Developed as an **Android service** with a neural network built with the Encog ML Framework.
- Selected as a DevPost weekly staff pick in February 2016

Awards

1st Place - American Express Canada GrowthHack	*Sept. 2017*
2nd Place - Ontario Engineering Competition, 2017	*Feb. 2017*
1st Place - Waterloo Engineering Competition, 2016	*Nov. 2016*