

# Arjun Menon

arjungmenon@gmail.com | +1 347-947-1471

*Significant professional experience in back-end, front-end, and Android. Several large projects on GitHub.*

I'm passionate about writing good code. My skills include **Kotlin, TypeScript, Python, C++, Java, React.**

I'm looking to do **back-end work, in any statically typed language**, like Rust, Kotlin, C#, Go, Haskell, etc.

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## SELECTED WORK EXPERIENCE

**NEXTDOOR | SOFTWARE ENGINEER III** REMOTE (TORONTO)  
Kotlin & Java (on the back-end) + TypeScript May 2022 – Nov 2023

I worked on the Nextdoor Ads Manager, Nextdoor's in-house ads platform.

- Built back-end functionality for various aspects of creating an advertising campaign, including image upload and management, ad creative assets management, as well as a CSV-based bulk ad upload & editing system.
- Implemented various pieces of the front-end, including auto image scaling functionality in FE, ad blocker detection (code), etc.

**WAYFAIR | SOFTWARE ENGINEER II** BOSTON, MA  
Back-end PHP + JS March 2020 – Oct 2020

I worked on the Wayfair website, which gets millions of unique visitors daily.

- Built a GDPR cookie compliance framework that's used company-wide.
- Wrote custom ESLint rules to enforce various new coding conventions.

**ACTIVEVIAM | SOFTWARE ENGINEER** NEW YORK, NY  
JS statically typed with Flow March 2017 – April 2018

I worked on ActiveUI (today called Atoti), a UI for ActiveViam's proprietary database called ActivePivot, which is used by large financial institutions.

- Built user interfaces that allowed non-technical users to construct and perform database queries without having to know the query language.
- Wrote partial query code generators for each piece of the UI, which a final query generator would stitch together into a query string. I also built recognizers that would analyze & transform the abstract syntax tree (AST) of a hand-written query, and have the UI reflect that query.

**AMPLIFY | SOFTWARE ENGINEER** NEW YORK, NY  
Back-end (Java & Play) + Android (Java) Oct 2014 – June 2016

I worked on the Android app and the server-side of an educational platform used by several K-12 school districts across the United States.

- Implemented a data export service, involving a few new REST endpoints, which made it possible for users to download their data upon demand. This service constructed ZIP files containing user data gathered from the MySQL database and from Amazon S3.
- Improved the Android app's responsiveness and reduced the perceived activity load times significantly by performing SQLite database queries in separate threads, and populating UI components as each query finished.
- Built Android content providers for much of the user data stored on-app.
- Implemented an app usage metrics tracking & collection system.

**KIKIN | SOFTWARE ENGINEER**  
C++ (Android NDK) + Java (Android) Feb 2013 – Sept 2013

- Worked in partnership with Samsung to integrate kikin search functionality into the Samsung Internet browser, by modifying Chromium code (C++), and its Android layer (Java).

## PERSONAL PROJECTS

See on: <https://github.com/arjun-memon>

**PYPAGE TEMPLATE ENGINE (PYTHON)**

Powerful document template engine that can be used to build web pages, with an easy to learn syntax that's based on Python's.

🔗 [Click here to see.](#)

**TAX ANALYZER (REASONML)**

A web app that gives you a detailed breakdown of income taxes, along with an interactive chart that graphs the rate over income.

🔗 [Click here to use.](#)

**ALTEZA (PYTHON)**

Highly flexible static site generator driven by PyPage, that can be used to build websites.

🔗 [Click here to see.](#)

**DISTRIBUTED GRAPH ALGORITHMS**

Thoroughly documented implementations of certain distributed graph problems.

🔗 [Click here to see.](#)

**A TRANSPILER (PYTHON)**

Translates an esoteric research language to human-readable object-oriented Python.

🔗 [Click here to see.](#)

**NEOLISP LANGUAGE INTERPRETER (C++)**

A LISP-like language built to demonstrate a new kind of syntax: concurrent support for infix expressions and LISP's S-expressions.

🔗 [Click here to see.](#)

## EDUCATION

**B.S. IN COMPUTER SCIENCE**  
STATE UNIVERSITY OF NEW YORK  
AT STONY BROOK

2012

## SKILLS

Languages, frameworks, tools, etc:

Python • C • C++ • Java • SQL • HTML  
Kotlin • Mypy • TypeScript • React  
Git • Arch Linux • Rust (learning)