

Mohammed Bilal Akhtar



@bilal_akh



github.com/itsbilal



me@itsbilal.com

Interests

Databases

Distributed systems

Backend web development

Cloud computing

Biking

Technologies

Python

Ruby

JavaScript

Java

HTML/CSS

C/C++

Scala

Swift

Node.js

AWS

Linux/Unix

SQL

iOS

Work Experience

Amazon, Software Developer Intern
Toronto

09/2016 – 12/2016

- Worked on Java microservices responsible for selecting destination warehouses for goods sent by third-party sellers
- Set up AWS SNS, Lambda, and Kinesis streams to efficiently move incoming audit data to DynamoDB and Redshift at scale
- Architected and implemented an internal website using Flask and Backbone to investigate placement decisions, which reduced team operational load by 60%
- Provisioned a Redshift cluster to store large-scale metrics and answer higher-level questions about how inventory is moving into the network

PagerDuty, Software Developer Intern
Toronto

01/2016 – 04/2016

- Optimized notification generation in Scala microservices for large bursts of incidents, increasing incident-handling capacity by 10x
- Executed long-running database migrations directly in production while preserving availability
- Implemented direct incident assignment and incident grouping features in the Rails web app, among others
- Resolved system alerts to ensure product reliability

Polar, Software Developer Intern
Toronto

05/2015 – 08/2015

- Unified sign-in and user account storage across Polar products to improve user experience
- Resolved bugs and improved reporting UX in a Django website
- Implemented a new click tracking flow on client websites – involved updating browser scripts, rest APIs and an iOS library.
- Prototyped a new sign-up flow and payment processing engine in an internal hackathon, and won

Ubuntu/Debian, Community Developer
Remote

06/2010 – 09/2013

- Added new features to the Ubuntu Unity desktop shell, such as the display of progress over icons of apps being installed
- Maintainer of package liboauth on both Debian and Ubuntu since 2010 (preinstalled on Ubuntu systems since 2012)

Education

University of Waterloo,
Bachelor of Software Engineering (co-op)

09/2014 – 06/2019

- 4.0 GPA