

Mohammed Bilal Akhtar



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github.com/itsbilal



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Interests

Databases

Distributed systems

Backend web development

Cloud computing

Biking

Technologies

Python

Ruby

JavaScript / Node.js

Java

HTML / CSS

C / C++

Scala

AWS

Linux / Unix

SQL

iOS (Swift)

Work Experience

Amazon, Software Developer Intern

09/2016 – 12/2016

Toronto

- 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 5-10 tickets a week
- Provisioned a Redshift cluster to store large-scale metrics and answer high-level questions about inventory placement

PagerDuty, Application Developer

01/2016 – 04/2016

Toronto

- 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
- Resolved system alerts to ensure product reliability

Polar, Full-stack Developer

05/2015 – 08/2015

Toronto

- 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
- Won an internal hackathon for prototyping a new sign-up flow and payment processing engine

Ubuntu/Debian, Community Developer

06/2010 – 09/2013

Remote

- 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,

09/2014 – 06/2019

Bachelor of Software Engineering (co-op)

- 4.0 GPA