Mohammed **Bilal** Akhtar

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Interests

Databases

Distributed systems

Backend web development

Cloud computing

Biking

Technologies

Python

Go

Ruby

JavaScript / Node.js

Java

HTML / CSS

C / C++

Scala

AWS

Linux / Unix

SQL

iOS (Swift)

Work Experience

Cockroach Labs, Backend Engineering Intern   05/2016 – Present
New York City

- Implemented new SQL statements to inspect running queries and sessions across a CockroachDB cluster
- Designed a mechanism to cancel queries in-flight

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 built an internal website using Flask and Backbone to investigate placement decisions, which reduced on-call workload

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

Polar, Full-stack Developer   05/2015 – 08/2015
Toronto

- Unified sign-in and user account storage across Polar's Django web apps to improve user experience
- 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

Activities

- Ran a SQL workshop with ~200 participants
- Organized Tech Retreat, a hackathon for high school students
- Active student senator in the University senate

Education

University of Waterloo,   09/2014 – 06/2019
Bachelor of Software Engineering (co-op)

- 3.95 GPA (Dean's Honours List recipient)
- Class academic representative