Mohammed **Bilal** Akhtar

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Interests

Databases

Distributed systems

Backend web development

Cloud computing

Technologies

Python

Ruby

JavaScript

Java

HTML/CSS

C/C++

Scala

Swift

Node.js

AWS

Linux/Unix

SQL

iOS

Work Experience

Amazon, Software Developer Intern   09/2016 – 12/2016
Toronto

- Worked on Java microservices responsible for selecting destination warehouses for inventory sent by third-party sellers
- Set up AWS SNS, Lambda and Kinesis streams to efficiently move audit data to DynamoDB and Redshift at scale
- Architected and implemented an internal website using Flask and Backbone to debug 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   01/2016 – 04/2016
Toronto

- Increased 10x the incident-handling capacity of Scala microservices that generate notifications, without any infrastructure growth
- Ran long-running database migrations directly in prod while preserving availability
- Implemented features in the Rails web app, such as direct incident assignment and incident grouping
- Resolved system alerts to ensure product reliability

Polar, Software Developer Intern   05/2015 – 08/2015
Toronto

- Unified sign-in and user account storage between Polar products
- Worked on the REST API, Django web app, and an iOS library
- Recognized internally numerous times for being quick to debug issues and for producing quality code
- Prototyped proposed features in internal hack days and won – twice

Ubuntu/Debian, Community developer   06/2010 – 09/2013
Worked remotely

- 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
- Dean's honours list recipient in 3 out of 4 terms