

# ZARWAN HASHEM

✉ zarwanhashem.com ◇ ✉ hashem.zarwan@gmail.com ◇ LinkedIn in/zarwanhashem

## EDUCATION

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### University of Waterloo

Bachelor of Applied Science in Honours Computer Engineering, Co-op  
With Distinction - Dean's Honours List

Sep 2014 - Apr 2019

GPA 3.7

## EXPERIENCE

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### LinkedIn

Staff Software Engineer - Create

Sep 2019 - Present

New York, NY

- Tech lead for Create, leading 25+ engineers to improve the quality and quantity of content on LinkedIn
- Architected a redesign of LinkedIn's analytics infrastructure, pushed for VP buy-in, and built cross-org relationships, accelerating feature launches by 60%
- Built heuristic-based creator segmentation classifiers and drove VP-level adoption across functions, shaping both product and engineering strategy.
- Built stream and batch processing systems ingesting billions of events per day to deliver real-time insights to members using Java, Flink, Beam, and Spark
- Designed the new core backend API service for Creator Analytics, supporting 10k+ QPS and 5+ teams
- Engineered an improved caching solution for LinkedIn's web scraper, reducing outbound traffic by 63%
- Defined operating models, built incident runbooks, and championed tech debt reduction across orgs

### Jane Street

Software Developer Intern - Market Data, Core Services

Sep 2018 - Dec 2018

New York, NY

- Developed a selective email rate limiter using OCaml that detected and rate limited low-priority emails
- Created a command-line tool to heuristically select and fuzzy-search a representative set of securities

### LinkedIn

Software Engineering Intern - Content Analytics

Jan 2018 - Apr 2018

San Francisco, CA

- Developed systems to find data anomalies in batch and stream processing systems using Pig and Python
- Introduced an aggregation flow, reducing storage costs and increasing data retention by over 12x

### Microsoft

Software Engineering Intern - Office 365

May 2017 - Aug 2017

Mountain View, CA

- Implemented a data abstraction layer in C# that allows storing data on multiple database backends
- Researched the limitations of multiple NoSQL database services and built serializers to handle variances

### Shopify

Developer Intern - Mobile Shopify

Sep 2016 - Dec 2016, Jan 2016 - Apr 2016

Ottawa, ON

- Enhanced the internal query and caching framework for Android to handle errors and retries using Java
- Improved an algorithm to heuristically extract prominent colours from images and apply them to views

### Guidewire Software

Developer Intern - Internal Tools

May 2015 - Aug 2015

Mississauga, ON

- Developed an IntelliJ plugin to support Grill, an internal programming language written in ANTLR4

## SKILLS

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- Experience in Java, C#, and OCaml, familiar with Scala, Python, C, C++, Go, Ruby (on Rails)
- Spark, Flink, Samza, Hadoop (MapReduce), Kafka, Beam, Git, Mercurial, GraphQL, UNIX
- HDFS, Pinot, MySQL, DocumentDB (Azure Cosmos DB)