ZARWAN HASHEM

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EDUCATION

University of Waterloo   Sep 2014 - Apr 2019
Bachelor of Applied Science in Honours Computer Engineering, Co-op   GPA 3.7
With Distinction - Dean's Honours List

EXPERIENCE

LinkedIn   Sep 2019 - Present
Staff Software Engineer - Creator Analytics   New York, NY

· Tech lead for Creator Analytics; design stream and batch processing systems ingesting billions of events per day to deliver real-time insights to members using Java, Samza, and Spark
· Architected a redesign of LinkedIn's analytics infrastructure, pushed for VP buy-in, and built cross-org relationships, accelerating feature launches by 60%
· Analyzed member behaviour to develop creator segments, informing roadmaps across engineering, product, and business development for 100+ engineers
· 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%
· Championed code quality and tech debt reduction, proactively improving codebases across orgs
· Defined operating models, built incident runbooks, and influenced product roadmaps for multiple teams

Jane Street   Sep 2018 - Dec 2018
Software Developer Intern - Market Data, Core Services   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   Jan 2018 - Apr 2018
Software Engineering Intern - Content Analytics   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 to increasing data retention by over 12x

Microsoft   May 2017 - Aug 2017
Software Engineering Intern - Office 365   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   Sep 2016 - Dec 2016, Jan 2016 - Apr 2016
Developer Intern - Mobile Shopify   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   May 2015 - Aug 2015
Developer Intern - Internal Tools   Mississauga, ON

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

SKILLS

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