ZARWAN HASHEM

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EDUCATION

University of Waterloo

September 2014 - April 2019

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

GPA 3.7

EXPERIENCE

Jane Street Capital

September 2018 - December 2018

Software Developer Intern - Market Data, Core Services

New York City, NY

- · Developed a selective email rate limiter using OCaml that detected and rate limited low-priority emails
- · Heavily redesigned and refactored a core internal system, simplifying future updates and expansions
- · Created a command-line tool to heuristically select and fuzzy-search a representative set of securities

LinkedIn January 2018 - April 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
- · Conducted research and implemented changes in various MapReduce jobs to optimize performance
- · Implemented a system to increase analytics retention by over 12x by introducing a new roll-up flow that minimizes storage costs using Hadoop, Samza, and Kafka

Microsoft May 2017 - August 2017

Software Engineering Intern - Office 365

Mountain View, CA

- · Authored a design document outlining infrastructure changes for the RESTful backend of a new product
- · 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

Ottawa, ON

- · Expanded a data-fetching and caching framework for Android to support errors and retries using Java
- · Optimized token storage by adding invalidation in an internal GraphQL API using Ruby on Rails

Shopify January 2016 - April 2016

Developer Intern - Mobile Shopify

Ottawa, ON

· Improved an algorithm to heuristically extract prominent colours from images and apply them to views

Guidewire Software

Developer Intern - Internal Tools

May 2015 - August 2015

Mississauqa, ON

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

PROJECTS

StockOverflow (Android, Node.js)

devpost.com/software/stock-overflow

September 2016 - December 2016

· Developed a stock prediction algorithm that applies sentiment analysis to article headlines

SKILLS

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