

# SIDDHARTH VAKNALLI

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🔗 SiddharthVaknalli

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## LANGUAGES

Java  
JavaScript + ES6  
Python  
Ruby  
C/C++  
PHP

## FRONT-END

React  
Angular  
jQuery  
Less / Sass  
D3 / C3

## BACK-END

Rails  
Django  
Node  
Express  
MySQL  
MongoDB

## TOOLS

Git  
Bash  
Unix

## EDUCATION

**University of Waterloo**  
*Candidate for Bachelor  
of Software Engineering*  
Sept 2015 - Apr 2020

## AWARDS

**Scotiabank Software  
Engineering Entrance  
Scholarship**  
Strong academic  
and extracurricular  
achievement  
**Honour Roll - Senior  
Canadian Computing  
Competition**  
Top 7% of contestants

## WORK EXPERIENCE

### Zenefits

May 2018 - Aug 2018

Vancouver, BC

#### Software Engineering Intern

- Streamlined **Excel report generation tools** for **Benefits Engineering** team, reducing tech debt and improving organization and maintainability of backend code
- Architected a **delegate-based infrastructure** for populating custom reports, enabling **ETL data processing** from various **Django models** and improving **data accuracy by over 70%**
- Developed a **workflow** to automate the migration of companies to new insurance brokers, saving at least **5 hours of developer time** each week
- Wrote **Python microservices** for report data aggregation, maximizing code reusability in BI apps

Python, Django, React, MySQL, GraphQL

### Shopify

Sept 2017 - Dec 2017

Waterloo, ON

#### Software Developer Intern

- Developed and shipped **full-stack features** for **Wholesale channel** used by **2500+ merchants**
- Architected a **Kubernetes Job pod** to automate the deployment of **zero downtime DB migrations**
- Implemented a **batch scheduler** for processing incoming **webhook requests**, improving efficiency of **background jobs by over 50%** when handling webhook storms
- Optimized **GraphQL queries** for retrieving product information from the core Shopify API, reducing **API throttling by 20%** on average
- Developed a **workflow system** to streamline the selection of pricing options for merchants

Ruby on Rails, React, JavaScript/ES6, MySQL, GraphQL, Kubernetes

### Dejero Labs

Jan 2017 - Apr 2017

Waterloo, ON

#### Web Applications Developer Intern

- Developed an **API** for streaming content from remote network sources to broadcast destinations
- Revamped UI and backend for account signup page, boosting new users **by ~10% over 3 months**
- Developed an expert service **search platform** by integrating with a **third-party API**
- Built a **full-stack app** for users to rename, export and play video clips on the server
- Improved **chart rendering** in a report generation tool using **D3** and **C3**

Ruby on Rails, Angular, JavaScript, MySQL, C3, WebSocket, Node, Docker

### AGF Investments

May 2016 - Aug 2016

Toronto, ON

#### Junior Web Developer Intern

- Managed **front-end web applications** and deployed time-sensitive content in a team
- Implemented **Single Sign-On** and configured **WebSphere servers** for an internal **Java** sales app
- Designed **JSP templates** for improving functionality of a **shopping cart application**

JavaScript, Java, Cascade CMS, IBM WebSphere

## PROJECTS

Complete list at [github.com/SiddharthVaknalli](https://github.com/SiddharthVaknalli)

### Disrupter - [bit.ly/2O8DwOr](https://bit.ly/2O8DwOr)

Created a **blogging app** which lets users share their projects and tech ideas with others  
Node, Express, MongoDB, PassportJS, Flash, Semantic UI

### Ultimate Chess

Built a **chess game** with a two-player mode and 4 levels of **AI difficulty** in single-player mode  
Java, Swing, Minimax algorithm, Alpha-beta pruning algorithm