


# KANAV PETKAR

Aspiring Software Engineer

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## Experiences

### Software Engineering Intern

Fall '19

Autonomic.ai

 Palo Alto, CA


*Tech Used:* Go, Kubernetes, AWS, Docker, Helm, Prometheus, Grafana, Bash, CircleCI, Git

- Shipped Kubernetes controller to automatically reload resources whenever a secret or configmap change was detected, using **Go**, **Docker** and the **Kubernetes API** reducing service downtime by *30%*
- Implemented **AWS RDS Instance** with **S3 bucket** for storage and backups to ensure fault tolerance
- Designed dynamic alert routing system using **Helm**, **Prometheus** and **Alertmanager** reducing incident response time by *80%*
- Developed **Bash** scripts to install Kubernetes dependencies and tools used by *150 developers*

### Software Engineering Intern

Winter '19

Toyota

 Cambridge, ON

*Tech Used:* .NET, Angular.js, SQL Server, Node.js, SVN

- Shipped weld measurement system built with Mitsuya Bluetooth Calipers, **.NET**, **Angular.js**, and **SQL Server**, saving Toyota *\$74,460 annually* during scheduled destructive testing
- Presented system to Toyota management in Japan and system subsequently *filed for patent*
- Wrote *REST API* in **Node.js** to provide new standard for vehicle lookup within Toyota Canada

### Software Engineering Intern

Summer '18

Capgemini

 Toronto, ON

*Tech Used:* Java, Spring Boot, SQL Server, JUnit, Selenium

- Shipped internal scheduling tool using **Java Spring Boot** and **SQL Server** saving *\$14,000 a year*
- Analyzed and broke down client processes to design and develop automation solutions
- Extensively unit tested codebase using **JUnit** and **Selenium** achieving *80% code coverage*

### Founder

2017

CodeNow Shipping

 Toronto, ON

- Identified promising niche for e-commerce, made mockups and sent designs for production in China
- Ran Facebook, google and adwords campaigns *increasing sales by 50%*
- Featured in Huffington Post, sold more than *10,000 units* and grossed more than *\$35,000 in profits*

## Selected Projects

### GoCal CLI

2020

Open-Source Google Calendar CLI written in Go

- Developed Google Calendar CLI using **Go**, **Cobra**, **Google OAuth API**, and **Google Calendar CLI**
- Identified potential opportunity for lightweight command to quickly check upcoming engagements

### Airdrums

2019

Computer Vision Based Drumkit

- Designed a computer vision based drum kit constructed using **Python**, **OpenCV**, **NumPy** and **Pandas**
- *Won Intel award* for best use of Intel processing power for matrix operations and multithreading

### Draino

2019

Open-Source Kubernetes Node Drainer

- Packaged and maintained open-source, community **Helm** chart for the project

## Education

### BaSC in Management Sciences-Engineering

2017 - Present

University of Waterloo

 Waterloo, ON

- Received Faculty of Engineering Scholarship and President's Scholarship
- *Relevant Courses:* Data Structures and Algorithms, Databases, OOP, Design Patterns

## Skills

### Languages

Go, Java, Python, Bash, C#, JavaScript, HTML, CSS, SQL

### Cloud Technologies

Kubernetes, Docker, AWS  
Terraform, Prometheus, Helm

### Frameworks

Angular.js, React.js, Express.js  
Node.js, Spring Boot, Django

### Database Technologies

SQL Server, Postgres SQL

### Miscellaneous

Git, Agile Methodologies  
Test-Driven Development

## Certifications

- Six Sigma Green Belt
- Toyota Business Practices
- Udacity Data Analyst
- MEAN Stack Development

## Co-Curriculars

### UW Ecocar

Autonomous developer on the traffic signal perception team. Used OpenCV, Python and ROS.

### Quizbowl Society

President of Quizbowl Society. Organized practices to help with pursuit of excellence in the trivial arts

## Interests

- Vim
- Baseball
- Calligraphy
- Philosophy
- Self-Improvement