KANAV PETKAR

ASPIRING SOFTWARE ENGINEER

CONTACT INFO

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💼 EXPERIENCES

Cloud Infrastructure Engineering Intern

Present | Sep '19

Autonomic.ai ☐ Palo Alto, CA
Technologies Used: Go, Kubernetes, Helm, Prometheus, AWS, Terraform, Bash, Git

- Wrote a microservice using **Go** and the **Kubernetes API** to automatically update deployments when a secret or configmap change was detected, reducing downtime by *30%*
- Designed dynamic alerting system using **Helm** charts, **AWS Cloudwatch Metrics** and **Prometheus** *decreasing incident response time by 80%*
- Developed **Bash** scripts to automatically install dependencies and tools for use with **Kubernetes** for *150 developers*

Software Engineering Intern

Apr '19 | Jan '19

Toyota Cambridge, ON
Technologies Used: .NET, Angular.js, SQL Server, Node.js, SVN

- Developed weld measurement system using **.NET**, **Angular.js**, and **SQL Server**, saving Toyota *$74,460 annually*
- Presented weld measurement 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 Manufacturing Canada
- Improved AGV (autonomous delivery vehicle) routing and traffic saving more than *5400 hours of downtime annually*

Java Engineering Intern

Aug '18 | Apr '18

Capgemini Toronto, ON
Technologies Used: Java, Spring Boot, SQL Server, jUnit, Selenium

- Designed and developed internal scheduling tool using **Java Spring Boot** and **SQL Server** *saving $14,000 a year*
- Extensively unit tested codebase using **jUnit** and **Selenium** acheiving *80% code coverage*

Founder

Present | 2016

CodeNow Shipping Toronto, ON

- Identified promising niche for e-commerce, made mockups and sent designs for production in China
- Featured in Huffington Post, sold more than *10,000 units* and grossed more than *$35,000 in profits*

📁 SELECTED PROJECTS

Ctrl-F for Youtube Videos

2019

NLP to find best parts of videos

- Conducted **natural language processing** to determine the most relevant parts of videos
- Implemented both **IBM Watson's speech-to-text API** and **Google's Computer Vision API** along with the **tf-idf algorithm** to perform solid key-word matching

Airdrums

2019

Computer Vision Based Drumkit

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

🎓 EDUCATION

BaSC in Management Sciences-Engineering

Present | 2017

University of Waterloo Waterloo, ON

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

University of Toronto Schools

2017 | 2011

High School Toronto, ON

- Concurrently took university classes while finishing my degree