KANAV PETKAR

ASPIRING SOFTWARE ENGINEER

EXPERIENCES

Present Sep '19

Cloud Infrastructure Engineering Intern

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

Apr '19 Jan '19

Software Engineering Intern

Cambridge, ON Tovota

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

Aug '18 Apr '18

Java Engineering Intern

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 vear
- Extensively unit tested codebase using jUnit and Selenium acheiving 80% code coverage

Present 2016

Founder

Toronto, ON CodeNow Shipping

- 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

2019

Ctrl-F for Youtube Videos

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

2019

Airdrums

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

Present 2017

BaSC in Management Sciences-Engineering

University of Waterloo

Waterloo, ON

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

2017 2011

University of Toronto Schools

High School

Toronto, ON

· Concurrently took university classes while finishing my degree

CONTACT INFO

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- **3** 647.781.1815

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

MongoDB, SQL Server Postgres SQL

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

- Baseball
- Calligraphy
- Philosophy
- Self-Improvement