Amol Venkataraman

Computer Science @ University of Waterloo
Looking for co-op placement for the Summer 2023 term.

+1 (647) 562 4178
avenkata@uwaterloo.ca
amolven16@gmail.com
LinkedIn: amolven16
https://amolven.me/

EXPERIENCE

University of Waterloo, *Web Developer* — OCT 2022 - PRESENT

- Making admin pages for the Rhetoricon DB website with React, and populating them with data from a Go server.
- Learnt React, Typescript, and Ant Design, and worked on a research-based project for the first time.

Atermon B.V., *Minecraft Mod Developer* — JUL 2022 - AUG 2022

- Created a Minecraft Mod using the Fabric Mod API that can interface with a Raspberry Pi Pico.
- Learnt Fabric API, Gradle, and Maven, and worked on a multi-file Java project for the first time.

Nokia, *Future Tech Intern* — JUL 2021 - AUG 2021

- Wrote a Python script that uses Locust and Greenlet to test the resiliency of servers by sending millions of requests in rapid succession.
- Cleaned up and optimized old Javascript Selenium tests to make them run 3 times faster.
- Learnt software testing, multiprocessing, and Selenium tests, and worked full-time for the first time.

Tilda Research, *Part-Time Intern* — JAN 2021 - JUL 2021

- Added filter-based search to a Ruby-on-Rails-based patient management system.
- Improved the UI to reduce load times and make the pages look cleaner and more visually appealing.
- Worked with the database, and assisted in fixing errors that were caused by duplicate or erroneous database entries.
- Learnt Ruby, and worked with production code for the first time.

PROJECTS

Personal Server [Linux, Nginx, Postgres, Redis, Samba, System Administration]
I run a Linux server where I store all my personal files and run all my web-based apps.

Docket [Python, Django, Nginx, Postgres, Celery, Bootstrap, Electron, HTML/CSS/JS]
Cloud-based calendar that gets events from other websites and shows them in one place.

AirGesture [Python, OpenCV, MediaPipe, TensorFlow]
Gesture-based input for computers with the potential to aid the differently abled.

Pikpic [Python, Flask, Django, Postgres, Redis, Tensorflow, Keras, HTML/CSS/JS]
Self-hosted photo gallery app with AI-based image indexing and search.

Singularity [Python, REST APIs]
An automated downloader script for content from Google Classroom and Brightspace.

EDUCATION

University of Waterloo, Bachelor — *Honours Computer Science* — 2022 - 2027

3.8 GPA, Currently in 1B term, looking for Summer 2023 co-op.

Recipient of President's Scholarship of Distinction.

Sir John A. Macdonald CI., High School Diploma — 2018 - 2022

Grade 12 average of 98%, President of Coding Club and Math Club, Member of Tech Crew.

TECHNICAL SKILLS

Machine Learning, Data Science, Computer Vision, Web Development Technical Support, System Administration, Software Testing, Linux, Arduino, Raspberry Pi

SOFT SKILLS

Critical thinking, Problem-solving, Communication, Leadership, Time management, Fast learning, Helpful nature

LANGUAGES

Python, Java, C, C++, HTML, CSS, JS, Ruby, Racket

LIBRARIES AND TECHNOLOGIES

OpenCV, Keras, Numpy, Pandas, Scikit-Learn, Matplotlib, TensorFlow, Django, Flask, FastAPI, Rails, Node.JS, Gradle, Maven, Selenium, Bootstrap, React, Nginx, Postgres, Redis, SQL, Linux, Git, GitHub

CERTIFICATIONS

CS50 Introduction to Computer Science

CS50 Web Programming Professional Certificate

CS50 Artificial Intelligence Professional Certificate

Google IT Support Certification

Deeplearning.ai Specialization

Cisco IT Essentials Certification

Applied Data Science with Python Specialization

Introduction to Linux

Learning Physics Through Simple Experiments

REFERENCES

Available upon Request