AMOL VENKATARAMAN

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EDUCATION

University of Waterloo, Bachelors - Honours Computer Science   **2022 - 2027**
Cumulative **GPA: 3.86 / 4.0**
Courses: Functional and imperative programming, Racket, C, Linux.

SKILLS

Languages: Python, Java, C, C++, HTML, CSS, JS, Ruby, Racket.
Frameworks: Flask, Django, FastAPI, Rails, OpenCV, MediaPipe, TensorFlow, Keras, Numpy, Pandas, Scikit-Learn, Matplotlib, Bootstrap, React.
Tools: Linux, Git, Bash, Docker, Postman, AWS, Google Cloud, Azure, Postgres, Redis, Gradle, Maven.

EXPERIENCE

University of Waterloo - Web Developer   **OCT 2022 - DEC 2022**
- Created **admin pages** for the Rhetoricon DB website using **React**, and populated them with data from a **Go server**.

Atermon B.V. - Minecraft Mod Developer   **JUL 2022 - AUG 2022**
- Used the **Fabric** Mod API to create a **Minecraft mod** that helps **children learn** about electronics.

Nokia - Future Tech Intern   **JUL 2021 - AUG 2021**
- Worked on software testing, and wrote code that **tests** the **Network Services Platform**, a software suite that allows **millions** of people to get Internet access.
- Created a Python script using **Locust** and **Greenlet** to load test servers by sending **millions of requests** in rapid succession, a **30x increase** from their older script.
- Cleaned up and optimized old Javascript **Selenium** tests to make them run **3x faster**.

Tilda Research - Part-Time Intern   **JAN 2021 - JUL 2021**
- Added **filter-based search** to a **Ruby-on-Rails**-based patient management system, making it **much faster** for admins to search for a specific patient.
- Improved the UI to reduce load times by **50%**, and make the web pages more **visually appealing**.

PROJECTS

Docket   **Python, Django, Nginx, Postgres, Redis, Celery, Bootstrap**
Created an innovative **web-based** calendar app that shows information from a **variety of sources** using their **APIs**, helping people with their **time management**.

Pikpic ([DevPost](#))   **Python, Flask, Tensorflow, Keras**
Made a **self-hosted** photo **gallery** app that leverages **deep neural networks** to allow users to **search** through their images using **people, places, things, and text**.

AirGesture   **Python, OpenCV, MediaPipe, TensorFlow**
Trained a **neural network** and made a program to **control a computer** using **hand gestures**.

Singularity ([GitHub](#))   **Python, REST APIs**
A **CLI script** that can **download content** from Google Classroom and Brightspace using their **APIs**.