

# Chinmay Wadgaonkar

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GitHub: <https://github.com/WChinmay>

## Work Experience

### Intel Corporation

Hillsboro, OR

Artificial Intelligence Intern

June 2019 – September 2019

- ❖ Implemented TensorTuner, a Bash tool used to optimize Tensorflow's threading model for CPU backends, producing performance improvements of up to 123% for Eigen backends and up to 28% for Intel's MKL backends.
- ❖ Utilized the Nelder-Mead simplex algorithm in Python to quickly converge to the optimal settings by pruning more than 90% of the parameter search space.
- ❖ Improved endpoints in Python and created and benchmarked an InfluxDB time-series database for a profiler.
- ❖ Parameterized IntelAI's customer-facing Model Zoo for faster and easier deployment of deep learning models.

### Symantec Corporation

Springfield, OR

Site Reliability Engineering Intern

June 2018 – September 2018

- ❖ Designed and implemented an automated process to monitor inactive infrastructure and client resources in Microsoft Azure to potentially save the company thousands of dollars for each billing cycle.
- ❖ Developed pipelines to deploy applications to the cloud in Docker containers and managed virtual machines in Microsoft Azure using Python, Groovy and Shell scripts.
- ❖ Worked with the development teams to deploy, maintain and enhance infrastructure by implementing automation for business products in Jenkins and Rundeck.

### Mark Engineering

Pune, IN

Software Engineering Intern

June 2017 – September 2017

- ❖ Implemented 2D and 3D graphics using graphics libraries in C, JavaScript and Windows Presentation Format.
- ❖ Conceptualized and created a consumer-facing exploratory application for children to play with 3D graphics.
- ❖ Coordinated with the client regarding project expectations with full ownership of the project from start to finish.

## Research Experience

### Collaborative Humans and Robots: Interaction Sociability, Machine Learning & Art Lab

Corvallis, OR

Undergraduate Research Assistant, Oregon State University

October 2017 – Present

- ❖ Co-authored a data-driven paper classifying social privacy in robots based on data gathered from online and in-person user studies which was published in the ACM/IEEE International Conference on Human Robot Interaction.
- ❖ Link to published paper: <https://ieeexplore.ieee.org/abstract/document/8673021>
- ❖ Investigated the impact of immersive visuals and touch on human robot interactions while working with ROS, Neato robots, Unity and the HTC Vive.
- ❖ Coded expressive anthropomorphic motions and jokes in the NAO robot using Choregraphe and Python.

### Robotics and Human Control Systems Lab

Corvallis, OR

Undergraduate Research Assistant, Oregon State University

November 2017 – March 2018

- ❖ Explored the utility of Function Electrical Stimulation in human muscles to test different implants and mobility restoration techniques in chickens and human cadavers.

## Projects

**Capstone:** Entity Sentiment Analysis using Natural Language Processing on custom hardware with Google as the client.

**Dog Harness:** A two-way communication enabled GPS-tracking dog harness coded in Matlab and Arduino using LoRa.

**Geo-Cacher:** A community-driven geocaching website built using HTML, CSS, JavaScript and MongoDB.

## Technical Skills

**Languages:** C++, Python, Bash, C, Java, JavaScript, SQL

**Technologies:** TensorFlow, Kubernetes, Docker, Kubeflow, Android Development, HTML/CSS, Jenkins, Rundeck, Microsoft Azure, Linux, NodeJS, MongoDB, InfluxDB, Choregraphe, Arduino, PTC Creo.

**Coursework:** Deep Learning, Analysis of Algorithms, Data Structures, Artificial Intelligence, Operating Systems, Computer Networks, Web Development, Computer Architecture, Probability and Random Signals.

## Education

### Oregon State University

Corvallis, OR

Honors Bachelor of Science in Electrical and Computer Engineering

June 2020

Minors in Computer Science and Chemistry

GPA: 3.90 / 4.00

### Campus Involvement

**OSU App Club:** Supported peer projects and designed personal projects with help from members.

2017 – Present

**Punjab Da Nashaa:** Performed the Indian folkdance, Bhangra, at multiple events in Oregon.

2017 – Present

**Synapse:** Created a recuperative environment for victims of traumatic brain injuries as Vice President.

2017 – Present

**OSU Robotics Club:** Created multiple components like a printed circuit board for the Mars Rover arm.

2016 – Present