

Gopal Nambiar

Grad Student at UC Davis - MSCS

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EXPERIENCE

Oracle, Bangalore, India — *Software Developer*

SEP 2020 - JUN 2022

- Work on server side applications and tools involving Oracle's Billing and Revenue Management Product
- Delivered feature enhancements to key customers using Linux, C/C++
- Successfully aided in deploying cloud-native version of the product
- Optimised docker images used by all teams
- Created scalable dashboards on Grafana
- Developed a log rotation application, linux utility to monitor and scrape important metrics

HP Enterprise, Singapore — *Intern*

JUN 2019 - JUL 2019

- Lead a team of four on a project that involved developing a Big Data Analytics-based solution to a real-world problem.
- Collaborated with the team on a project titled — "Chennai Reservoir Level Analysis using Hadoop Systems"

National University of Singapore — *Intern*

JUN 2019 - JUL 2019

- Learnt and applied various machine learning techniques
- Presented a project titled "Music Recommendation System based on Tweets" to a panel of esteemed professors — Dr.Tan Wee Kek and Dr.Lek Hsiang Hui

EDUCATION

PES University, Bangalore, India — *B.Tech*

AUG 2016 - SEP 2020

- **Relevant courses:** Computer Networks, Database Management Systems, Cloud Computing, Web Technologies, Computer Network Security, Artificial Intelligence, Machine Learning

PUBLICATIONS

Presented and published a research paper "Multi Modal Genre Classification of Movies" at IEEE International Conference for Innovation in Technology (INOCON), 2020

SKILLS

- Python, C, C++, Java, Javascript, PHP
- Tensorflow, SQL, Node, Angular, Flask, GIT, Android, Linux, Kubernetes, Docker

EXTRA-CURRICULARS

- Worked with teams to organise events during tech fests - Aatmatrisha, Prakaalpa
- Represented my school and district at various Tennis and Badminton Tournaments

LANGUAGES

English, Hindi, Spanish, Malayalam

PROJECTS

De-escalation and prevention of violent crimes through visual recognition of weapons

SEP 2022 - DEC 2022

Architected a novel convolutional neural network that performs weapon detection and generates alerts based on high-risk situations.

Multi-Modal Genre Classification of Movies

JAN 2020 - NOV 2020

Using multiple machine learning and deep learning algorithms, conducted a deep dive investigation on the most accurate ways for identifying the genre/genres to which a film belongs. (Python)

Social Network Analytics

NOV 2019 - DEC 2019

Analysed degree and betweenness centrality, clustering coefficient, and other parameters of a social graph containing comic book characters to form in-depth insights. (Python, Networkx, Cytoscape)

Advanced Computer Networks

JAN 2019 - APR 2019

Given a real-world business scenario, built a working network model for a company, simulated network traffic, and created a firewall. (Python, Cisco Packet Tracer)

Filesystem using FUSE

AUG 2018 - DEC 2018

Developed a feature-rich filesystem using a tree-based topology. (C, FUSE)

PacManAI

AUG 2018 - DEC 2018

Recreated the classic arcade game Pacman. Implemented the A-star search algorithm to improve the AI used by the ghosts, thereby increasing the difficulty. (Javascript)