

Deon Levon Dmello

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EDUCATION

Indian Institute of Technology Madras

BS in Programming and Data Science

Chennai, TN

September 2021 – Present

- Course CGPA: 7.0
- Project CGPA: 9.0
- Completed Diploma in Data Science

Reva University

B.Tech Computer Engineering (AI&ML)

Bengaluru, KA

December 2020 - July 2024

- CGPA: 8.1

EXPERIENCE

Computer Vision Trainee

June 2024 – Present

Tardid Technologies

- **Algorithm Development:** Designed and implemented algorithms to improve naval vessels' detection range and bearing accuracy.
- **Sensor Integration:** Successfully integrated sensors such as LiDAR and IMU with the vision system, enhancing environmental awareness for maritime applications.
- **Machine Learning Integration:** Developed backend code to incorporate machine learning models into the system, optimizing real-time decision-making.
- **Technical Skills:** Applied expertise in sensor fusion, algorithm optimization, and backend development to enhance the performance and reliability of naval systems.
- **Keywords:** Algorithm Development, Sensor Fusion, LiDAR, IMU, Vision Systems, Machine Learning, Backend Development, Naval Systems.

SRE / Platform Engineer Intern

March 2024 – June 2024

Practo Technologies

- **Site Reliability Engineering (SRE):** Managed and resolved support tickets using JIRA, connecting to servers over SSH to troubleshoot and fix issues, ensuring system reliability and uptime.
- **Platform Team Contributions:** Implemented bug patches, enhanced platform stability, and developed a thorough understanding of in-house tools for sending SMS and email notifications.
- **Technical Proficiency:** Gained hands-on experience with PagerDuty for incident management and developed a foundational understanding of Docker for containerization and deployment processes.
- **Keywords:** SRE, JIRA, SSH, Troubleshooting, Bug Patches, Platform Stability, PagerDuty, Docker, Containerization, Deployment.

PROJECTS

WaterB&B | *Node.js, MongoDB, Bootstrap, Secure Authentication*

September 2023

- Integrated Node.js, MongoDB, and Bootstrap to create an immersive and secure property hosting and reviews platform.
- Focused on delivering a seamless user experience with particular attention to secure authentication.
- Engineered the platform to elevate user engagement and foster enhanced interactions within property hosting.

ImageColorization | *Python, PyTorch, CNN, Machine Learning*

April 2024

- Created and trained a convolutional neural network (CNN) to automatically colorize black and white images.
- Progressed the project towards a standalone Python package to facilitate easy integration and use by other developers.
- Maintained and documented the project on GitHub, encouraging community contributions and providing clear guidelines.

Food101 | *Image Classification, CNN, Transfer Learning, Model Optimization*

September 2023

- Engineered a Food101 image classification model, showcasing proficiency in machine learning and deep learning techniques.
- Optimized model performance through fine-tuning, resulting in improved accuracy in food category predictions.
- Collaborated on the deployment of the image classifier, ensuring smooth integration into production systems.

TECHNICAL SKILLS

Languages: Python, HTML/CSS/JavaScript, C/C++, MySQL, MongoDB, PostgreSQL

Machine Learning: scikit-learn, TensorFlow, PyTorch

Developer Tools: Visual Studio, Jupyter, Colab

Operating Systems: Windows, Linux, Mac OS

Robotics Frameworks: ROS, Gazebo, OpenCV

CERTIFICATIONS

TensorFlow Developer Certificate

Foundational Level Certificate in Programming and Data Science - IIT Madras

The Web Developer Bootcamp (MERN)

HTML, CSS & JavaScript

Python for Data Science, AI & Development

Programming for Everybody (Python)

Design Thinking for Innovation