**LAKSHMI VISHAL HAYAGRIVAN**

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Creative developer with knowledge in multiple programming languages, actively studying and involved in projects that will further enhance my practical experience.

# EDUCATION

**Madras University, Chennai, India**

## Bachelor’s & Master’s in Computer Science **Graduation: May 2018**

* **Concentrations:** o Data Structures & Algorithms, Objects Oriented Programming, Cloud Computing, Unix, and Linux, Basic Web applications development fundamentals, Basic Mathematics and Statistics.

o MySQL, Data Security using Cryptography, Operating Systems, C Programming, JAVA.

* **Related Coursework:**

o Developed a Fall Detection Application for Elderly care (May 2016) o Developed a Web Application using C# called CipherTech- Empowering Secure Communications (May 2018).

**Kristianstad University, Skåne Country, Sweden** ***Graduation: June 2025***

## Bachelor’s in software development (Aug 2022 – May 2025)

**Concentrations:**

Full Stack Development, Mobile App Development, Machine Learning, Test Driven Development, Code Quality

using Linters, Workflow Integration, Team Collaboration, Version Control using Git, Agile Methodology using Jira, Makefile automation, Unit Testing in python, REST API in React, GraphQL, Docker, MongoDB, Kotlin, Android Development using JetPack Compose, Firebase, Django, NLP.

**Related Coursework:**

* Designed and developed a Desktop Application called **Soft Health** (Uses Myer’s Brigg Personality Test to assess individual’s personality type and using customized questionnaire the application understands the mental health condition of an individual and give personalized suggestions. **(April - May 2023)**
* Designed and developed **Sports Union Website (HKIF**) a MERN Stack web Application enabling students to register for activities/events and allowing admins to monitor registrations.

Figma Link for HKIF Sport union Website:

<https://www.figma.com/design/iAEBH2D7RQWcpzFFZfVuvT/HkIF?m=auto&t=wK2SDfNR0qRBxCUI-6>

**(April - May 2024)**

o Designed and developing a **Virtual Garden application** featuring user registration/login, weather monitoring, notifications for extreme weather, smell sensor integration for air quality, and plant condition analysis through image processing, involving IoT integration and real-time alerts for Assimilatus, Staffanstorp, Skåne.

Figma Design for Virtual Gardener Mobile APP: [https://www.figma.com/design/3I1Clqzpi4LdUOSiRA6IU3/Virtual-Gardener-(Copy)?node-id=01&p=f&t=wK2SDfNR0qRBxCUI-0](https://www.figma.com/design/3I1Clqzpi4LdUOSiRA6IU3/Virtual-Gardener-(Copy)?node-id=0-1&p=f&t=wK2SDfNR0qRBxCUI-0)

**(Oct 7- Nov 8, 2024)**

* **Machine Learning-Based Crop Classification** – Implemented Random Forest, SVM, and Gradient Boosting to classify cropland types using fused optical-radar datasets. Conducted feature engineering, data preprocessing, and model tuning to improve classification accuracy. *(October 2024 – November 2024)*
* **Big Data Log Analysis for Anomaly Detection** – Conducted log analysis using the LogHub Windows.log dataset to detect anomalies and analyze behavioral patterns. Utilized Hadoop and Spark for big data processing and applied machine learning techniques to classify anomalies, improving log management efficiency. *(Nov 2024 – Jan 2025)*

# EXPERIENCE

* **Technical Support Engineer (*Ppyrus India Pvt Ltd, Chennai, TN, India)***  ***Jan 2019 - Jan 2020***  Provided technical support and troubleshooting assistance for clients, ensuring timely resolution of issues. Assisted

in the implementation and maintenance of software solutions to enhance client operations.

* **Web Developer Intern** (***Uniq Technology Pvt Ltd, Chennai, TN, India)*** ***Apr 2018 - Jun 2018*** Developed and maintained web applications using HTML, CSS, and JavaScript to enhance user engagement. Assisted in designing user interfaces and improving website functionality based on client requirements.
* ***Mobile App Developer | Assimilatus AB, Staffanstorp, Skåne Oct 2024 – Nov 2024*** Designed and Developed the **Virtual Garden app** with IoT sensor integration, real-time monitoring, and **Firebase-backed** Jetpack Compose UI for plant health analysis.

* ***Thesis Researcher | Axis Communications, Lund Jan 2025 – Present***

Conducting research on Advanced Log Analysis for Anomaly Detection in System Testing. Developing an

automated logging system incorporating predictive analytics and machine learning to improve anomaly detection accuracy.

Figma Link:

<https://www.figma.com/design/N4lC2XzR0YTCr7pNfylcKF/Axis_Log_Analysis?m=auto&t=FFlvASAeYzJWyefV-6>UX Research for Log Analysis in Miro Whiteboarding tool:

<https://miro.com/app/board/uXjVIGR5dps=/>

# REFERENCE CONTACT

* **Kamilla klonowska(Kamilla.klonowska.hkr@gmail.com)**

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* **Haris Durakovic (haris.durakovic@axis.com)**

Quality Assurance Engineer at Axis Communication

* **Robert Lupeskovic (Robert.lupeskovic@axis.com)**

Automation Test Engineer at Axis Communication