MAHALAKSHMI

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EDUCATION

Purdue University Fort Wayne — IN, U.S.A
Master of Science in Computer Science — GPA: 4.0 — *Aug. 2024 – May 2026*

American University of Sharjah — Sharjah, U.A.E
Bachelor of Science in Computer Engineering — *Aug. 2020 – Dec. 2023*

TECHNICAL SKILLS

Languages: HTML, CSS, Javascript, Python, Java, C++, Verilog

Libraries and Frameworks: MERN Stack, Next.js, Cypress, Jest, Tkinter, Keras, Tensorflow, Bootstrap

Developer and Deployment Tools: VS Code, Visual Studio, Git, GitHub, Bitbucket, PyCharm, Vercel

Project Design and Management Tools: Trello, Jira, Figma, Canva

EXPERIENCE

Schneider Electric — June 2024 – July 2024
Process Automation and Procurement Intern — *Dubai, U.A.E*
- Designed and implemented a streamlined, user-friendly **supplier scorecard application** for the Procurement and Supply Chain department.
- Utilized **Python** for backend processing, **Tkinter** for the user interface, and **MySQL** with **phpMyAdmin** for database management.
- Completed **cybersecurity trainings** from Schneider ACES Cybersecurity team.

BetaIT — July 2023 – Sept. 2023
Research Intern — *Dubai, U.A.E*
- Assisted the **Director of Corporate Development** with research regarding **Odoo and its applications**, exploring how it could be integrated into the company's 2nd **digital transformation**.

American University of Sharjah — March 2023
Python Bootcamp Assistant — *Sharjah, U.A.E*
- Assisted with 2-day Python Bootcamp under the **Associate Dean of Business**
- Taught **Python** basics, **Numpy**, and **Pandas** for Data Analyses
- Engaged over 30 attendees from Business School and various non-tech disciplines

BetaIT — July 2022 – Aug. 2022
IT Intern and Team Leader — *Dubai, U.A.E*
- Utilized **Hypervisors** and **Autopsy** in **Kali Linux**
- Created and configured **virtual load balancers** on **Google Public Cloud**
- Focused on research, presentation, and teamwork

RELEVANT PROJECTS

Sweetwater Student Opportunities App (SWE Project) — Sep. 2024 – Dec. 2024
Purdue University Fort Wayne — *IN, U.S.A*
- Collaborating in an **Agile environment** with a team to develop a web application using **React** and **Next.js** for frontend and **Node.js/Express/MongoDB** for backend.
- Implemented CRUD functionality for event management (create, read, update, delete) with features such as RSVP and event feedback for members.
- Integrating a responsive design for both desktop and mobile users, ensuring smooth user interaction for event discovery, RSVP, and feedback submission.
- Participating in sprint planning, reviews, and retrospectives to continuously improve project delivery and meet deadlines.

Ecommerce Platform (CampusMart) using MERN Stack — Aug. 2024 – Dec. 2024
Purdue University Fort Wayne — *IN, U.S.A*
- Developed a peer-to-peer ecommerce platform using the **MERN stack**, enabling secure buying and selling of used items.
- Built responsive frontend components with **React**, ensuring a smooth user experience and optimizing performance.
- Deployed the application using Vercel for scalability and reliability.
- Collaborated with the team in an **Agile development cycle**, ensuring efficient task completion and quick feedback integration.

Cybersecurity Supply Chain Management Project   Sep. 2024 – Dec. 2024

Purdue University Fort Wayne   *IN, U.S.A*

- Collaborated with a team to analyze and address supply chain security management issues for a DoD CIO presentation.
- Led analysis of cyber threats using the Cyber Kill Chain methodology, identifying vulnerabilities and proposing defensive measures.
- Worked with team and delivered a comprehensive final presentation, covering defense-in-depth strategies and mission assurance procedures.

Vocabulary Website Development   Feb. 2023 – Nov. 2023

American University of Sharjah   *Sharjah, U.A.E*

- Team Project with Next.js, React, HTML, CSS, JavaScript (front-end), and Node.js with MongoDB (back-end).

Land Cover Classification and Segmentation   Sept. 2023 – Nov. 2023

American University of Sharjah   *Sharjah, U.A.E*

- Team Project - Evaluated segmentation accuracy in satellite imagery using **Python**, **Keras** and **Tensorflow**.

Text-based Game using Java   Sept. 2022 – Dec. 2022

American University of Sharjah   *Sharjah, U.A.E*

- Team Project - Developed a Text-based game using **3 Sensors**, **Multithreading**, and **Java design patterns**.

Smart Parking using Embedded Systems   Sept. 2022 – Dec. 2022

American University of Sharjah   *Sharjah, U.A.E*

- Team Project - Developed a **smart parking system** using **Raspberry PI**, **I/O peripherals, sensors**, **Python**.