

MAHALAKSHMI

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EDUCATION

Purdue University Fort Wayne

Master of Science in Computer Science — GPA: 4.0

IN, U.S.A

Aug. 2024 – May 2026

American University of Sharjah

Bachelor of Science in Computer Engineering

Sharjah, U.A.E

Aug. 2020 – Dec. 2023

SOFT SKILLS

Communication – Clear and respectful communication with diverse audiences including faculty, peers, and students.

Teamwork – Collaborative team player with experience working in cross-functional academic and volunteer teams.

Leadership – Took initiative in both technical and community projects, often coordinating efforts and guiding team activities.

Adaptability – Comfortable handling new tasks and learning on the job in both technical and service-oriented environments.

Problem-Solving – Quick to identify issues and suggest practical solutions in real-time situations.

Time Management – Able to balance coursework, projects, on-campus work, and volunteering with consistent performance.

Confidentiality – Experience handling student data and academic materials with discretion and professionalism.

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

Purdue University Fort Wayne – Math and Science Testing Center

Jan. 2025 – Present

Proctor – Student Staff

Fort Wayne, IN

- Supervise, monitor students during math and science exams, ensuring a calm, secure, and respectful testing environment.
- Check students in and out for scheduled tests while verifying IDs and adhering to privacy and confidentiality guidelines.
- Deliver completed exams promptly to professors, maintaining secure chain of custody and discretion.
- Collaborate with faculty and staff for proctoring large-scale and individual exams, following specific instructor policies.
- Trusted with confidential student and academic data; maintain professionalism and integrity in handling sensitive information.

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

MastodonHub (Team Project)

Jan. 2025 – Apr. 2025

Purdue University Fort Wayne

IN, U.S.A

- Collaborated in an **Agile** team to develop a full-stack web application for campus club and event engagement using **React**, **Django**, and **SQLite**.
- Achieved **95%+ backend test coverage** with Cypress and **45%+ frontend test coverage** with Jest.
- Built and enhanced frontend features including a **Contact Support page with EmailJS**, Google Calendar integration, and localStorage-based state handling.
- Improved **UI/UX** with responsive card-based layouts and intuitive navigation.
- Participated in weekly sprints, created user stories and epics in **Jira**, and maintained CI/CD pipelines using **Bitbucket**.

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.

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.

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.

VOLUNTEERING

Community Services and Outreach

Sep. 2022 – Dec. 2023

American University of Sharjah

Sharjah, U.A.E

- * **Distributed essentials to workers** in University City, Sharjah.
- * **Raised funds** for "Ghana Classroom Campaign" with **Sharjah International Charity**.
- * Volunteered at Al Ihsan's "Food For The Needy" in Ajman, involving **food packing and distribution**.