

# MAHALAKSHMI

## Full Stack Developer

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### EDUCATION

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#### 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

### SKILLS

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

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

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

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

**Soft Skills:** Communication, Teamwork, Leadership, Adaptability, Problem-Solving, Time Management, Confidentiality

### EXPERIENCE

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#### ForOurLastNames

June 2025 – August 2025

Full-Stack Software Engineering Intern

Remote

- Enhanced **React** and **TypeScript** components for user onboarding and legal pages, delivering **9 features** with **95% completion rate** across financial technology platform.
- Led **mobile app deployment** project for **iOS/Android App Stores**, researching submission requirements and creating deployment workflows, reducing deployment preparation time by **40%**.
- Implemented **automated testing** with **Playwright**, conducted framework analysis, and developed test scripts, improving code quality and reducing manual testing effort by **30%**.
- Fixed **4 critical UI/UX bugs** and enhanced responsive design across web/mobile interfaces, improving user experience and application stability.

#### 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 2022 – Aug. 2022 & July 2023 – Sept. 2023

IT Intern, Team Leader & Research Intern

Dubai, U.A.E

- Led infrastructure projects using **Google Cloud** virtual load balancers, **Hypervisors**, and **Autopsy** on **Kali Linux**.
- Conducted research on **Odoo ERP** implementation for digital transformation initiatives, reporting to the Director of Corporate Development.
- Contributed to technical documentation, team presentations, and collaborative tasks across both internship phases.

#### 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 & engaged over 30 attendees from various non-tech disciplines**
- Taught **Python** basics, **Numpy**, and **Pandas** for Data Analyses

## RELEVANT PROJECTS

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### MastodonHub

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**.

### CampusMart - Ecommerce Platform

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

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 the **MERN Stack** and **Next.js**
- Implemented **CRUD** for event management 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.

### 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**.

## POSITIONS OF RESPONSIBILITY

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### Proctor – Student Staff

Jan. 2025 – Present

*Purdue University Fort Wayne – Math and Science Testing Center*

*Fort Wayne, IN*

- Monitored exams, enforced testing policies, and ensured a secure, distraction-free environment.
- Verified student identities, managed check-ins/outs, and upheld confidentiality protocols.
- Handled and delivered exams securely, coordinating with faculty for various testing formats.

### 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**.