

Thrinayani Yedhoti

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SUMMARY

Results-oriented MS candidate in Computer Science (University of Washington, expected June 2027) with 1.5+ years in software development and 6 months of AI/ML research experience along with Industrial Research experience in Green Software Research Group at Schneider Electric. Proficient in JavaScript/TypeScript, C#, C++, Java, SQL, Python, and Angular, with demonstrated expertise in full-stack development, including frontend UI design with modern frameworks, backend API development, and database optimization. Collaborated at Schneider Electric to deliver innovative solutions, such as reducing licensing validation time by 30% and database query execution by 40% using ASP.NET, SQLAlchemy, and agile methodologies.

SKILLS

Programming Languages: Java, JavaScript, TypeScript, C#, C++, SQL, Python

Frameworks and Libraries: Angular, REST API, FAST API, Node.js, .NET, ASP.NET, SQLAlchemy, OpenCV, Pytorch

Tools: Azure DevOps, Git (Version Control), Github, Visual Studio, Postman, Jira, VSCode, SonarQube

Databases: SQL, MySQL, SQLite (with ORM principles)

Methodologies: SCRUM, CI/CD, Agile, Code Reviews, Software Testing

EDUCATION

MS, Computer Science and Software Engineering

University of Washington

Expected: June 2027

GPA: 3.75/4.0

Bachelor of Technology, Computer Science and Engineering

Amrita Vishwa Vidyapeetham

Sep 2020 - Jul 2024

GPA: 3.5/4.0

• **Achievements:** First Class with Distinction, Published two research works in IEEE

• **Coursework:** Object-Oriented Programming (A+), Neural Networks and Deep Learning (A+)

EXPERIENCE

Schneider Electric, Research and Development

Software Design Engineer (Full-stack Developer)

Feb 2025 - Aug 2025

Bengaluru, India

- Developed a proof-of-concept for Unity M580 Application Converter(UMAC) application's GSE license mechanism with C#.
- Reduced licensing validation time by 30% and improving scalability for the Unity M580 Application Converter through the POC.
- Green Software Research Group: Contributed to Edge computing solutions for carbon emission metric with Python and FastAPI to extend the solution to a manufacturing plant.
- Designed user management features and dashboards for the cybersecurity service portal using Angular, ASP.NET enhancing vulnerability inspection analysis tools.

Schneider Electric, Research and Development

Graduate Engineer Trainee (Full-stack Developer)

Aug 2024 - Feb 2025

Bengaluru, India

- Developed edge computing solutions to calculate carbon footprint metrics at device, application, and container levels.
- Contributed to Industry Services projects using ASP.NET (C#) and Angular to deliver critical enhancements.
- Utilized agile SCRUM practices across the Software Development Life Cycle, improving project alignment by 20%.
- Optimized code using .NET, WPF, and Angular, reducing application load times by 20% and ensuring robust unit testing.
- Improved database performance with SQLite and SQLAlchemy using ORM principles, achieving a 40% faster query execution.

Schneider Electric, Research and Development

Application Engineer - Intern

Jan 2024 - Jul 2024

Bengaluru, India

- Mastered C#, Angular, and .NET, delivering a production-ready RBAC application, validated with Sonar and Coverity .
- Demonstrated ownership by delivering reliable code and adapting to new technologies in a fast-paced environment.

PROJECTS

Optimal Seamlines for Image Stitching using Fast Marching Method (OpenCV) | [Link](#)

- Image stitching pipeline with **OpenCV** in C++, using the Fast Marching Method to compute optimal seamline along with mask computation for images with large parallax.
- Worked with [Lawrence Sanchez \(Engineering Director at Minecraft, Microsoft\)](#) for this project

Accurate and Optimized Labelling of Fashion Products Through Attention Based SNN [IEEE] | [Link](#)

- Published research on attention-based spiking neural networks for efficient and accurate labeling of fashion products, leveraging **Python** and **AI/ML** techniques.

Convolutional Neural Network Based Age Estimation using Diverse Facial Datasets [IEEE] | [Link](#)

- Developed a **CNN-based** model for age estimation using diverse facial datasets, implemented in **Python**, achieving high accuracy in real-world applications.