Thrinayani Yedhoti

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Summary

MS student in Computer Science at University of Washington (June 2027) with 1 year 8 months of full-stack development experience and 6+ months of AI/ML research experience, including two IEEE publications. Contributed to Green Software Research Group at Schneider Electric, developing edge computing solutions for carbon emission tracking. Proven expertise in delivering measurable results: 40% faster query execution, 30% reduced validation times, and 20% improved application performance.

Skills

Programming Languages: Java, JavaScript/TypeScript, C#, C++, SQL, Python
Frameworks and Libraries: Angular, REST 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 — **Expected: June 2027**
University of Washington — *GPA: 3.75/4.0*

Bachelor of Technology, Computer Science and Engineering — **Sep 2020 - Jul 2024**
Amrita Vishwa Vidyapeetham — *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 — **Feb 2025 - Aug 2025**
Software Design Engineer (Full-stack Developer) — *Bengaluru, India*

- Engineered proof-of-concept GSE license mechanism for Unity M580 Application Converter using C#, reducing validation time by 30% and establishing foundation for enhanced scalability.
- Architected edge computing solution for carbon emission metrics tracking in manufacturing plants using Python and FastAPI as part of Green Software Research Group initiative.
- Built user management features and analytical dashboards for cybersecurity service portal with Angular and ASP.NET, streamlining vulnerability inspection workflows.

Schneider Electric, Research and Development — **Aug 2024 - Feb 2025**
Graduate Engineer Trainee (Full-stack Developer) — *Bengaluru, India*

- Developed edge computing solutions for multi-level carbon footprint analysis across devices, applications, and containers, enabling real-time sustainability monitoring.
- Delivered critical enhancements to Industry Services projects using ASP.NET (C#) and Angular within agile SCRUM framework, improving sprint delivery alignment by 20%.
- Optimized application performance through .NET, WPF, and Angular refactoring, achieving 20% reduction in load times while maintaining comprehensive unit test coverage.
- Enhanced database efficiency by implementing ORM-based architecture with SQLite and SQLAlchemy, accelerating query execution by 40%.

Schneider Electric, Research and Development — **Jan 2024 - Jul 2024**
Application Engineer - Intern — *Bengaluru, India*

- Developed production-ready RBAC application using C#, Angular, and .NET, achieving quality standards validated through Sonar and Coverity analysis.
- Rapidly acquired expertise in enterprise technologies, delivering reliable code solutions in fast-paced development 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.