Yash Priyadarshi

Software Engineer 2 YOE, MS in CS

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EDUCATION

The Pennsylvania State University 08/2024 - 05/2026
Master of Science in Computer Science Engineering **GPA**: 3.78/4.0

- **Relevant Coursework**: Data Structures Algorithms, Vision and Language, Deep Learning for NLP, Computer Vision, Computer Architecture, Operating Systems

Vellore Institute of Technology 07/2018 - 05/2022
Bachelor of Technology in Computer Science Engineering **CGPA:** 8.99/10

WORK EXPERIENCE

Ericsson India Bengaluru, India
Software Engineer 08/2022 - 07/2024

- Engineered and deployed the "**Automatic Site Deployment**" project using **Python**, **YAQL**, and **Go**, meeting critical requirements for **AT&T** and **CNIS**, reducing manual intervention by 80%.
- Conducted comprehensive **vulnerability assessments** on CCD products, mitigating 95% of identified risks; resolved **critical bugs**, enhancing product security and **reducing incident reports** by 40%.
- Designed and automated PDB health check using Go for CCD Bare Metal and CAPO environments. Ensured thorough functionality through **unit testing** and comprehensive **documentation** via 100% ownership.
- Developed the **Pre-Upgrade Resource Check feature** for CCD IBD, ensuring accurate resource values before upgrades; **mentored an intern** on Kube State Metrics, resolving 5 release-blocking activities in 3 months, improving release timelines by 20%.
- Managed containerized applications on Ericsson products using Kubernetes, Helm, and OpenStack heat deployments.
- Spearheaded Ericsson's **KSM v2.4.0 release**, ensuring compliance with **design rules**, **managing dependencies** with FOSSA/MUNIN, and performing **post-release activities**.
- Resolved on average **10 bugs bi-weekly** as part of sprints, ensuring **smooth operations** and cutting incident response times by 15%.

Ericsson India Bengaluru, India
Cloud SDN Intern 01/2022 - 06/2022

- Founded and Engineered the **OMC 2.0 Simulator** with **SDI** and **CEE** devices, as part of Operations Manager Cloud team.
- Leveraged the use of **SwaggerAPI 3.0** with **Flask server** to generate stub code, added **functional logic** to make a working simulator; packed it as **lightweight containers** using Docker; **Deployed** to running servers using **kubernetes**.
- Tested API endpoints with Postman and managed version control using Git and Gerrit.

SKILLS

Programming Languages: C++, Python3, Shell, Go, JavaScript, YAML, HTML5, CSS, YAQL, LaTeX
Database tools: NoSQL, MongoDB, JSON
Backend Frameworks: Flask, FastAPI, Node.js, Express.js, PyMongo, Mongoose, Pytest
ML Frameworks: TensorFlow, Keras, Numpy, Pandas, PyTorch, R, MATLAB, scikit-learn
DevOps tools : Docker, Kubernetes, Helm, Ansible, Heat Orchestration Templates, Robot Framework, Linux
Critical Tools : Jenkins, Git, GitHub, Agile, JIRA, Atlassian Confluence

PROJECTS

PDB Health Check

- Ensured Pod Disruption Budget (PDB) limits were met before upgrades in a Kubernetes cluster, **preventing** CCD upgrade **failures** by 40%.
- Delivered using Go, this feature is a crucial part of CCD, packaged as part of CNIS, used by 75% of cellular service providers globally.

Automatic Site Deployment

- **Automated deployment** of CCD BareMetal clusters using Python, reducing manual effort and deployment time by 70% and errors by 60%.
- **Developed** and **optimized** deployment scripts to streamline CCD BareMetal **cluster provisioning,** improving efficiency and reliability by 40%.
- **Generated** primary templates and input compositions markups required for deployment of BM clusters, achieving 82% **unit test coverage** with Pytest.

Pre-Upgrade Resource Check

- **Ensured** data type correctness as a pre upgrade check for CCD IBD for HOT, **reducing upgrade failures** by 40%, and saving peer developer's time by 70%.