Yash Priyadarshi

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Education

The Pennsylvania State University — State College, PA
Master of Science in Computer Science and Engineering; GPA: 3.78 — *Aug 2024 – May 2026*

Vellore Institute of Technology — Vellore, India
Bachelor of Technology in Computer Science and Engineering; GPA: 3.6 (8.99/10.0) — *Jul 2018 – May 2022*

Experience

Ericsson — Bengaluru, KA
Software Engineer — *Aug 2022 - Jul 2024*

- Transformed the **Automatic Site Deployment** initiative by engineering and deploying a solution using Python, YAQL, and Go, fulfilling critical AT&T and CNIS requirements and cutting manual intervention by 80%.
- Executed comprehensive vulnerability assessments on CCD products, neutralizing 95% of identified risks and curtailing incident reports by 40% through prompt resolution of critical bugs.
- Architected and automated a robust **Pod Disruption Budget (PDB)** health check using Go for CCD Bare Metal and CAPO environments, ensuring optimal performance through rigorous **unit testing** and detailed documentation.
- Pioneered the **Pre-Upgrade Resource Check** feature for CCD IBD, guaranteeing precise resource allocations prior to upgrades; **mentored an intern** on Kube State Metrics to resolve five release-blocking issues within two months, accelerating release timelines by 20%.
- Orchestrated the deployment of **containerized applications** on Ericsson products through Kubernetes, Helm, and OpenStack Heat deployments, streamlining operations and enhancing **system scalability**.
- Championed Ericsson's KSM v2.4.0 release by enforcing design rule compliance, coordinating dependencies with FOSSA and MUNIN, and leading comprehensive post-release validation activities.

Ericsson — Bengaluru, KA
Cloud SDN Intern — *Jan 2022 - Jun 2024*

- Spearheaded the development of the **OMC 2.0 Simulator** for **SDI** and **CEE** devices, augmenting the Operations Manager Cloud team's capabilities through innovative design and engineering.
- Leveraged **SwaggerAPI 3.0** with a **Flask server** to auto-generate robust stub code; integrated functional logic to transform the simulator into a fully operational solution, and containerized the application using Docker for seamless deployment via k8s.
- Validated **API endpoint** functionality using Postman and managed version control efficiently with Git and Gerrit, ensuring code integrity and smooth collaboration.

Programming Skills

Programming Languages: C++, Python, Shell, Go, JavaScript, R, MATLAB, Java, Dart, YAQL
Web and App Frameworks: Flask, FastAPI, Node.js, Express.js, Flutter
Database and Data Management: MongoDB, NoSQL, PyMongo, Mongoose, SQL, MySQL
Machine Learning and Data Analysis: TensorFlow, Keras, PyTorch, scikit-learn, Numpy, Pandas
DevOps and CICD: Docker, Kubernetes, Helm, Ansible, Heat Orchestration, Robot Framework, Linux
Critical tools: Jenkins, Git, GitHub, Agile, JIRA, Atlassian Confluence

Projects

PDB Health Check:

- **Engineered** a robust **Pod Disruption Budget (PDB)** monitoring feature for **Kubernetes clusters**, ensuring upgrade prerequisites were met and reducing CCD upgrade failures by 40%.
- **Delivered** this **Go-based solution** as an integral component of the **CNIS platform**, now leveraged by 75% of cellular service providers globally.

Automatic Site Deployment:

- **Automated** the deployment of **CCD BareMetal clusters** using **Python**, reducing manual effort by 70% and deployment errors by 60%.
- **Developed and optimized** deployment scripts with **82% unit test coverage** via **Pytest**, boosting provisioning efficiency by 40%.

Pre-Upgrade Resource Check:

- **Designed and implemented** a pre-upgrade validation for **CCD IBD**, ensuring data type accuracy that resulted in a 40% reduction in upgrade failures.
- **Streamlined** the upgrade process by automating **resource verification checks**, saving peer developers 70% of their time.